

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:sssptal623paz

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2	Apr 08	"Ask CAS" for self-help around the clock
NEWS	3	Jun 03	New e-mail delivery for search results now available
NEWS	4	Aug 08	PHARMAMarketLetter(PHARMAML) - new on STN
NEWS	5	Aug 19	Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
NEWS	6	Aug 26	Sequence searching in REGISTRY enhanced
NEWS	7	Sep 03	JAPIO has been reloaded and enhanced
NEWS	8	Sep 16	Experimental properties added to the REGISTRY file
NEWS	9	Sep 16	CA Section Thesaurus available in CAPLUS and CA
NEWS	10	Oct 01	CASREACT Enriched with Reactions from 1907 to 1985
NEWS	11	Oct 24	BEILSTEIN adds new search fields
NEWS	12	Oct 24	Nutraceuticals International (NUTRACEUT) now available on STN
NEWS	13	Nov 18	DKILIT has been renamed APOLLIT
NEWS	14	Nov 25	More calculated properties added to REGISTRY
NEWS	15	Dec 04	CSA files on STN
NEWS	16	Dec 17	PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS	17	Dec 17	TOXCENTER enhanced with additional content
NEWS	18	Dec 17	Adis Clinical Trials Insight now available on STN
NEWS	19	Jan 29	Simultaneous left and right truncation added to COMPENDEX, ENERGY, INSPEC
NEWS	20	Feb 13	CANCERLIT is no longer being updated
NEWS	21	Feb 24	METADEX enhancements
NEWS	22	Feb 24	PCTGEN now available on STN
NEWS	23	Feb 24	TEMA now available on STN
NEWS	24	Feb 26	NTIS now allows simultaneous left and right truncation
NEWS	25	Feb 26	PCTFULL now contains images
NEWS	26	Mar 04	SDI PACKAGE for monthly delivery of multifile SDI results
NEWS	27	Mar 19	APOLLIT offering free connect time in April 2003
NEWS	28	Mar 20	EVENTLINE will be removed from STN
NEWS	29	Mar 24	PATDPAFULL now available on STN
NEWS	30	Mar 24	Additional information for trade-named substances without structures available in REGISTRY
NEWS	31	Apr 11	Display formats in DGENE enhanced
NEWS	32	Apr 14	MEDLINE Reload
NEWS	33	Apr 17	Polymer searching in REGISTRY enhanced
NEWS	34	Apr 21	Indexing from 1947 to 1956 being added to records in CA/CAPLUS
NEWS	35	Apr 21	New current-awareness alert (SDI) frequency in WPIDS/WPINDEX/WPIX

NEWS EXPRESS April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT

MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
 AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003

NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 06:51:39 ON 28 APR 2003

=> ile reg

THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE

Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of commands which can be used in this file.

=> file reg

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 06:51:51 ON 28 APR 2003

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2003 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 25 APR 2003 HIGHEST RN 505904-68-7

DICTIONARY FILE UPDATES: 25 APR 2003 HIGHEST RN 505904-68-7

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

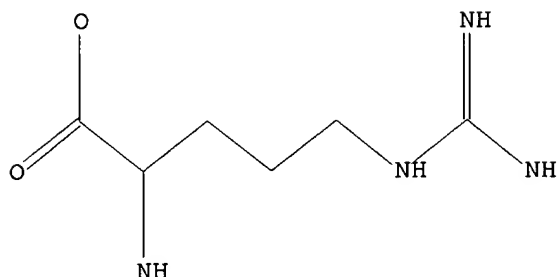
Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=>
Uploading 09844816 search core.str

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> search l1 sss sam
SAMPLE SEARCH INITIATED 06:52:28 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 13643 TO ITERATE

7.3% PROCESSED 1000 ITERATIONS 50 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

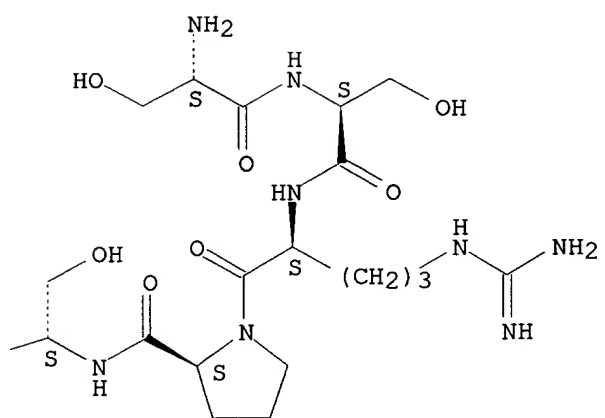
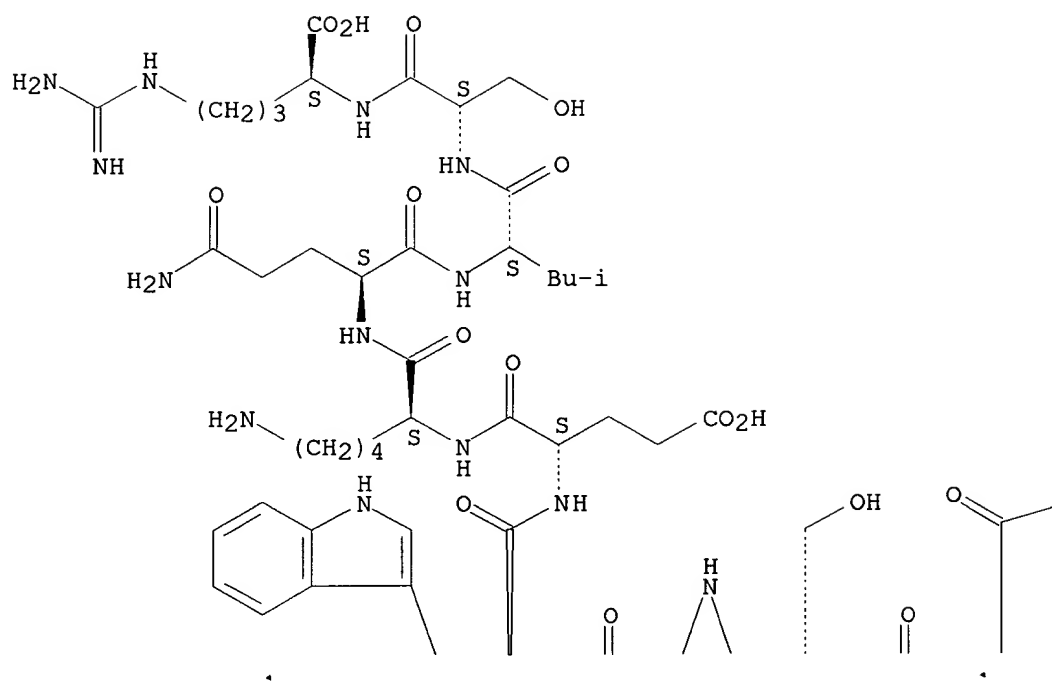
FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**
PROJECTED ITERATIONS: 265872 TO 279848
PROJECTED ANSWERS: 36897 TO 42231

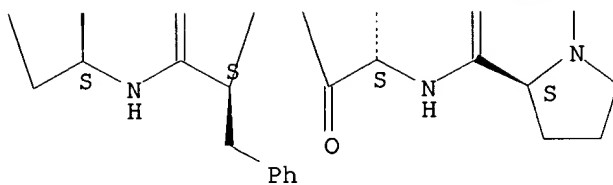
L2 50 SEA SSS SAM L1

=> d scan

L2 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Arginine,
L-seryl-L-seryl-L-arginyl-L-prolyl-L-seryl-L-prolyl-L-seryl-L-
phenylalanyl-L-tryptophyl-L-.alpha.-glutamyl-L-lysyl-L-glutaminyl-L-leucyl-
L-seryl- (9CI)
SQL 15
MF C79 H122 N24 O24

Absolute stereochemistry.



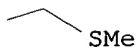
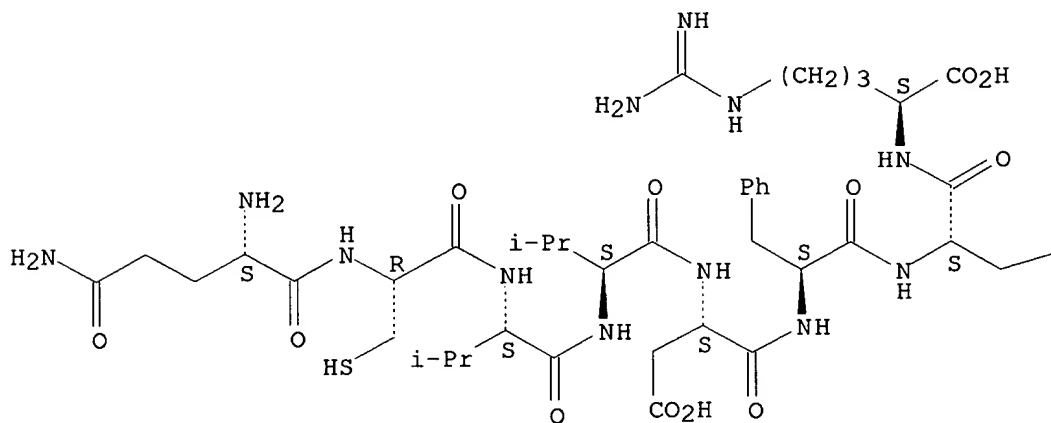


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

L2 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN L-Arginine,
 L-glutaminy-L-cysteinyl-L-valyl-L-valyl-L-.alpha.-aspartyl-L-
 phenylalanyl-L-methionyl- (9CI)
 SQL 8
 MF C42 H68 N12 O12 S2

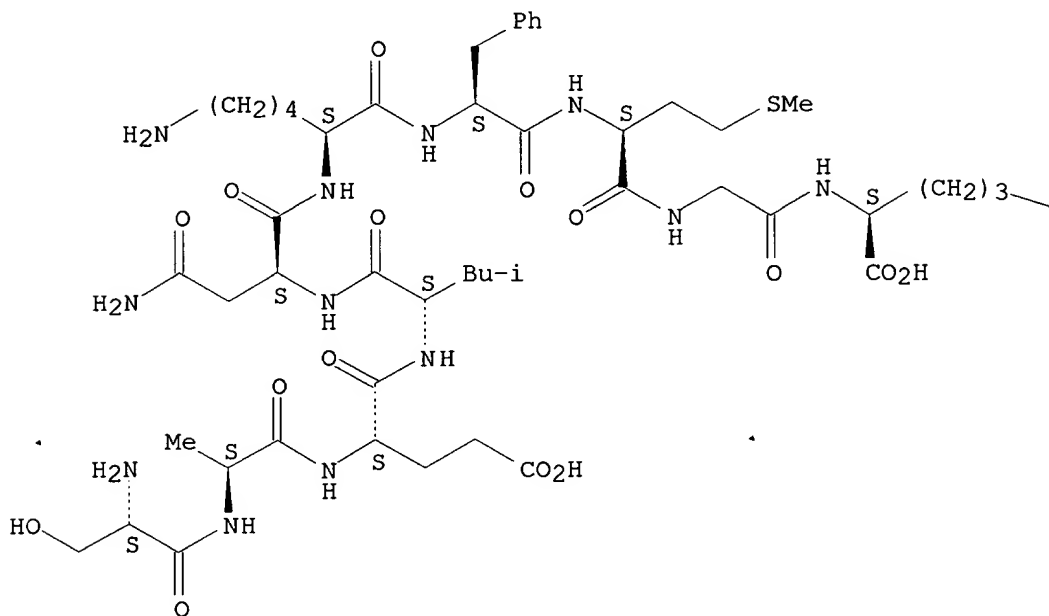
Absolute stereochemistry.



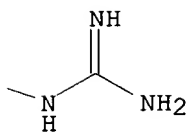
L2 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN L-Arginine, L-seryl-L-alanyl-L-.alpha.-glutamyl-L-leucyl-L-asparaginy-L-
 lysyl-L-phenylalanyl-L-methionylglycyl- (9CI)
 SQL 10
 MF C49 H81 N15 O15 S

Absolute stereochemistry.

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PAGE 1-B

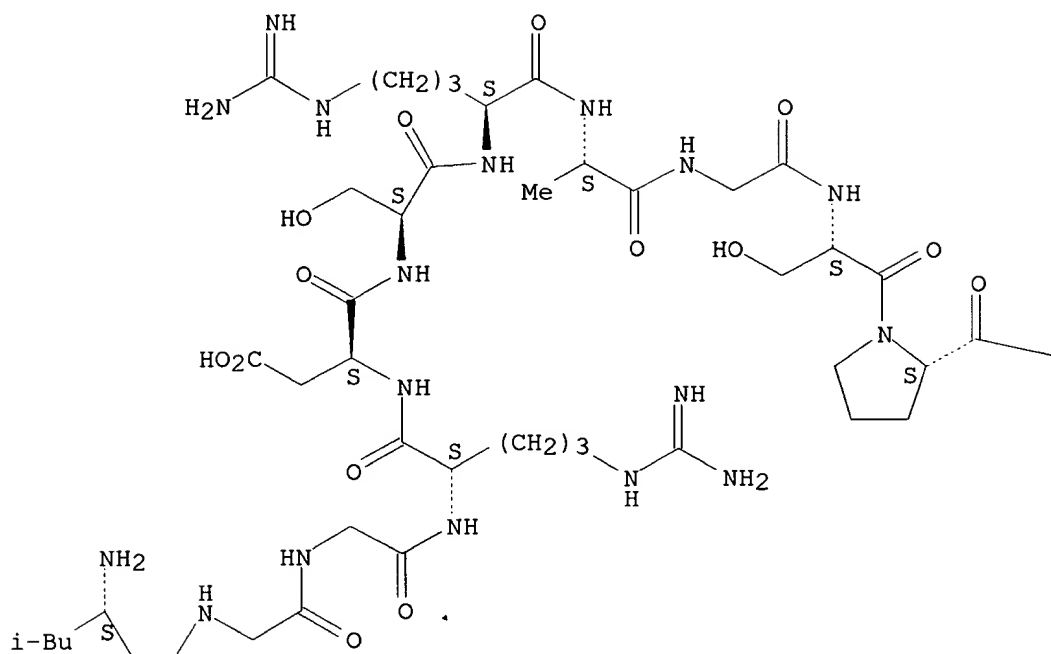


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

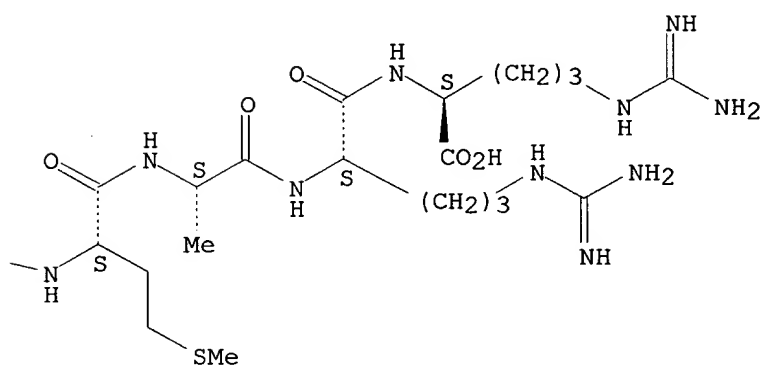
L2 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN L-Arginine, L-leucylglycylglycyl-L-arginyl-L-.alpha.-aspartyl-L-seryl-L-
 arginyl-L-alanylglycyl-L-seryl-L-prolyl-L-methionyl-L-alanyl-L-arginyl-
 (9CI)
 SQL 15
 MF C62 H111 N27 O20 S

Absolute stereochemistry.

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PAGE 1-B



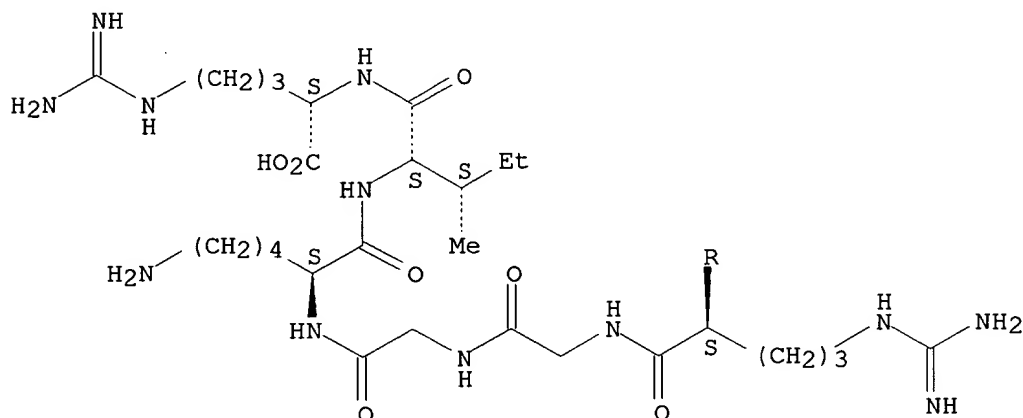
PAGE 2-A



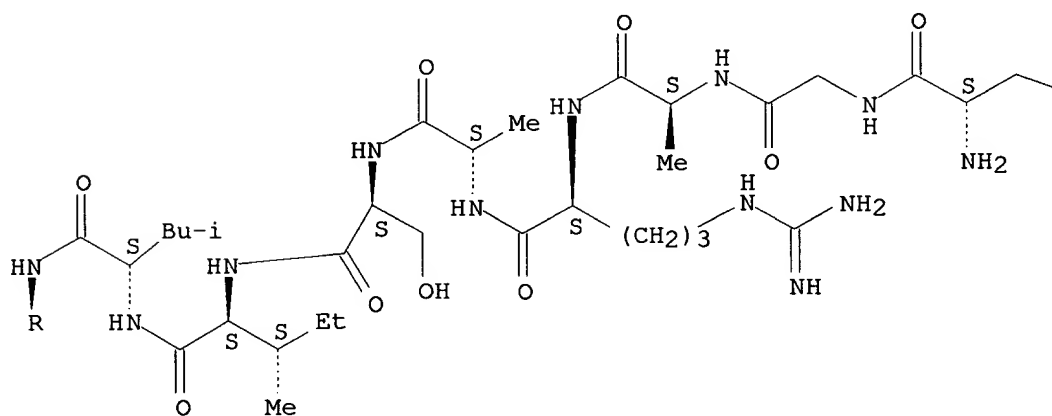
L2 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN L-Arginine, L-methionylglycyl-L-alanyl-L-arginyl-L-alanyl-L-seryl-L-
 isoleucyl-L-leucyl-L-arginylglycylglycyl-L-lysyl-L-isoleucyl- (9CI)
 SQL 14
 MF C62 H116 N24 O16 S

Absolute stereochemistry.

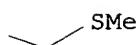
PAGE 1-A



PAGE 2-A



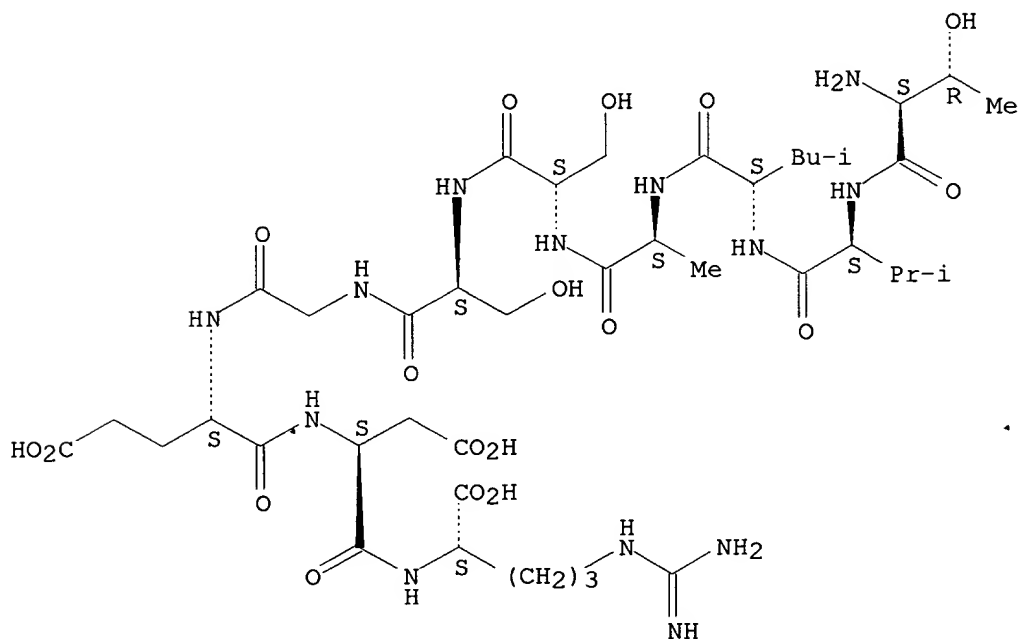
PAGE 2-B



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

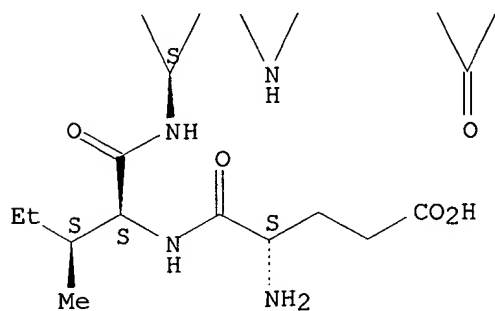
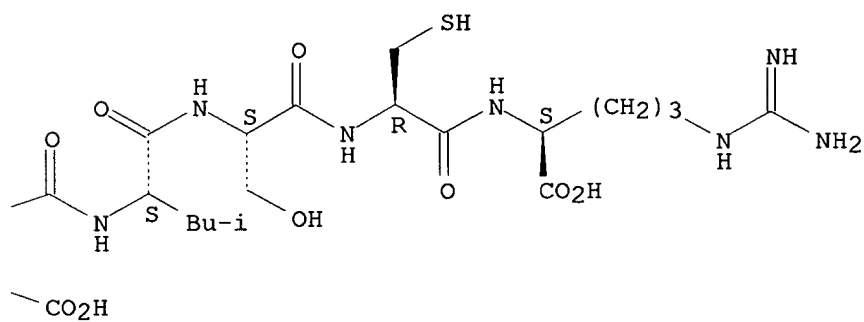
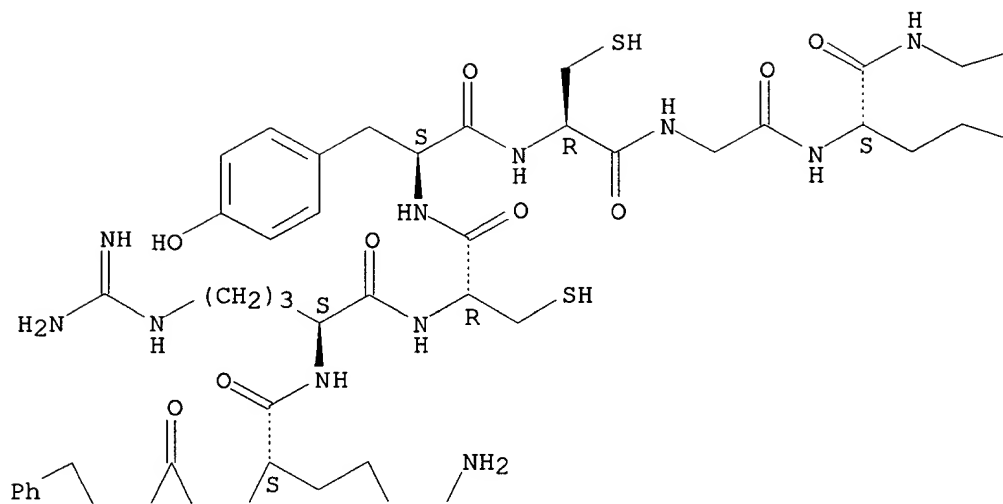
L2 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN L-Arginine, L-threonyl-L-valyl-L-leucyl-L-alanyl-L-seryl-L-serylglycyl-L-
 .alpha.-glutamyl-L-.alpha.-aspartyl- (9CI)
 SQL 10
 MF C41 H71 N13 O18

Absolute stereochemistry.



L2 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN L-Arginine, L-.alpha.-glutamyl-L-isoleucyl-L-phenylalanyl-L-glutaminy-L-
 arginyl-L-cysteinyl-L-tyrosyl-L-cysteinylglycyl-L-.alpha.-glutamylglycyl-L-
 leucyl-L-seryl-L-cysteinyl- (9CI)
 SQL 15
 MF C73 H114 N22 O23 S3

Absolute stereochemistry.

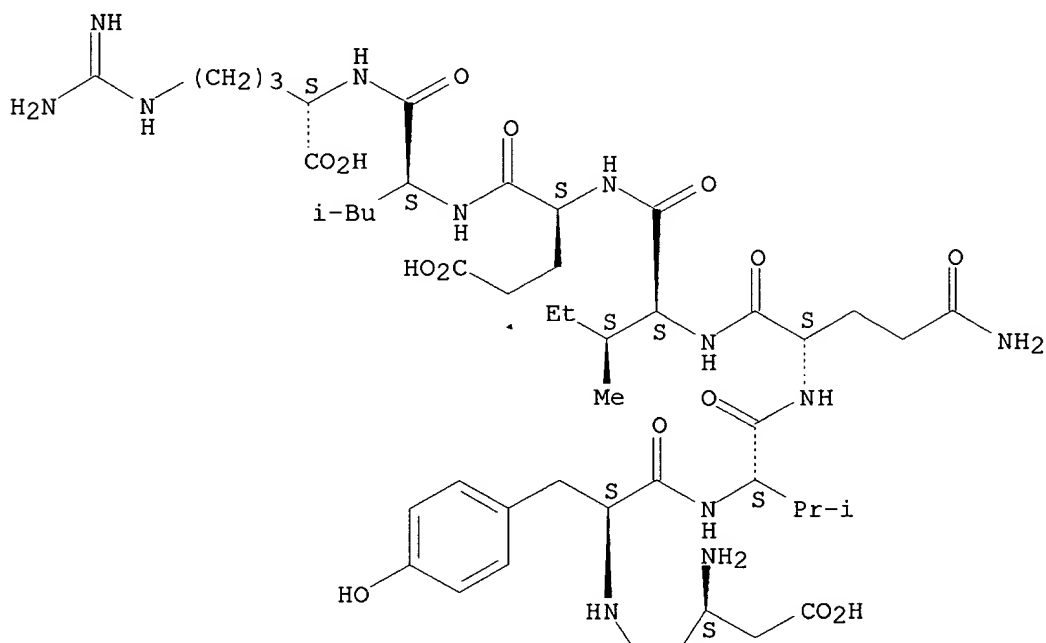


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Arginine,
L-.alpha.-aspartyl-L-tyrosyl-L-valyl-L-glutaminy-L-isoleucyl-
L-.alpha.-glutamyl-L-leucyl- (9CI)
SQL 8
MF C46 H74 N12 O15

Absolute stereochemistry.

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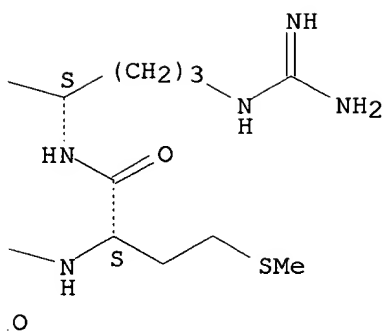
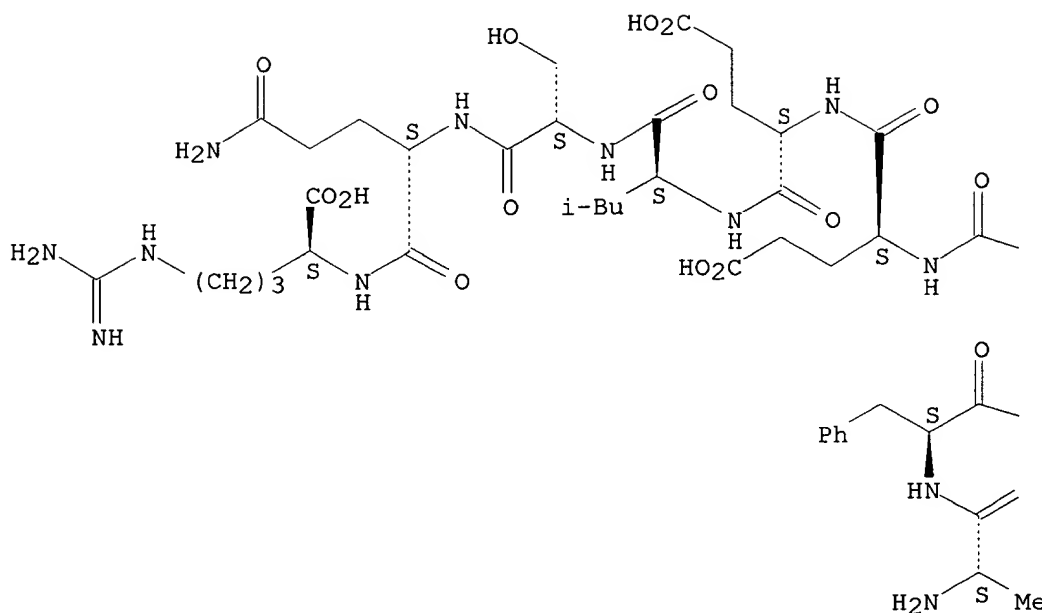


PAGE 2-A



L2 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Arginine, L-alanyl-L-phenylalanyl-L-methionyl-L-arginyl-L-.alpha.-
glutamyl-L-.alpha.-glutamyl-L-leucyl-L-seryl-L-glutaminy-L- (9CI)
SQL 10
MF C53 H87 N17 O17 S

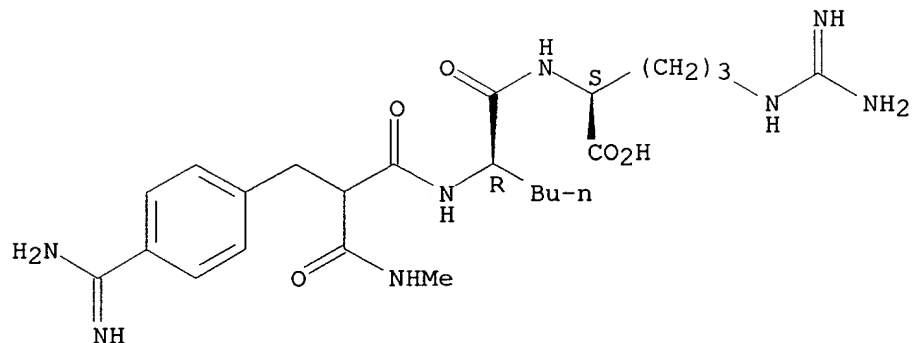
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN L-Arginine, 2-[[4-(aminoiminomethyl)phenyl]methyl]-N-methyl-3-oxo-.beta.-
 alanyl-D-norleucyl- (9CI)
 MF C24 H38 N8 O5
 CI COM

Absolute stereochemistry.

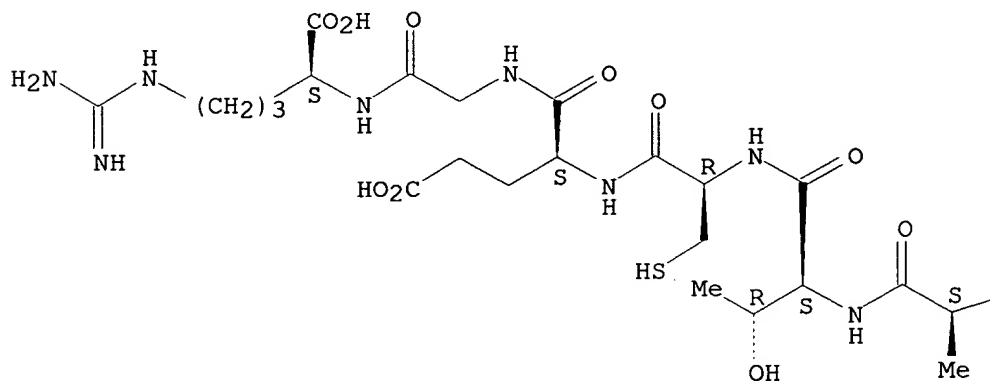


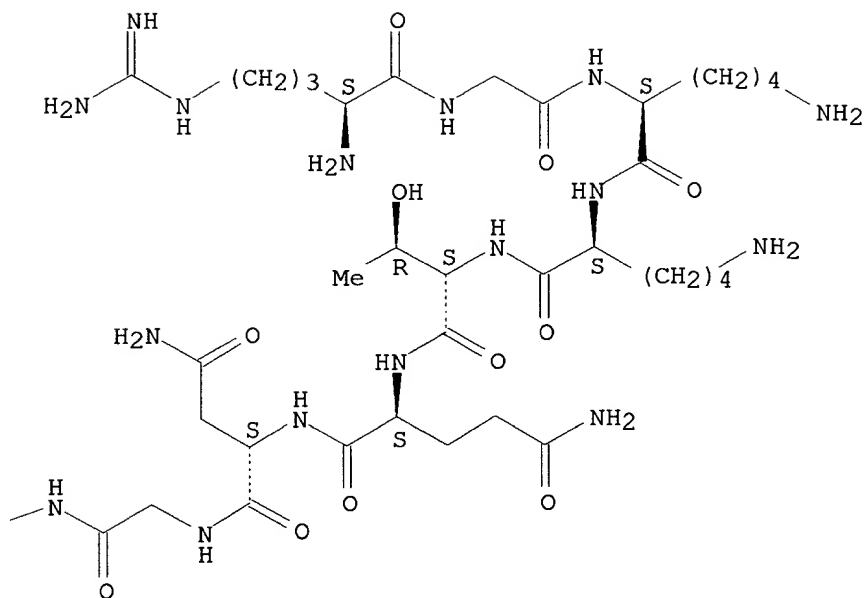
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Arginine, L-arginylglycyl-L-lysyl-L-lysyl-L-threonyl-L-glutaminyl-L-
asparaginylglycyl-L-alanyl-L-threonyl-L-cysteinyl-L-.alpha.-glutamylglycyl-
(9CI)
SQL 14
MF C58 H104 N24 O21 S

Absolute stereochemistry.

PAGE 1-A





PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=>

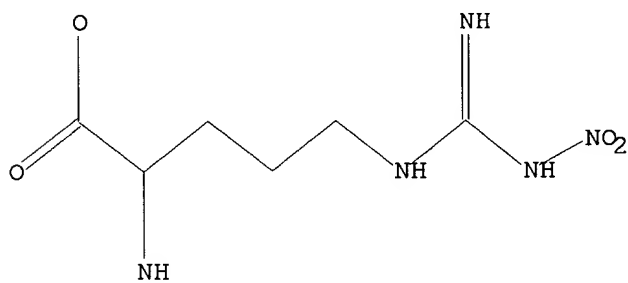
Uploading 09844816 search core nitro.str

L3 STRUCTURE UPLOADED

=> d 13

L3 HAS NO ANSWERS

L3 STR



Structure attributes must be viewed using STN Express query preparation.

=> search 13 sss sam

SAMPLE SEARCH INITIATED 06:54:46 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 433 TO ITERATE

100.0% PROCESSED 433 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

50 ANSWERS

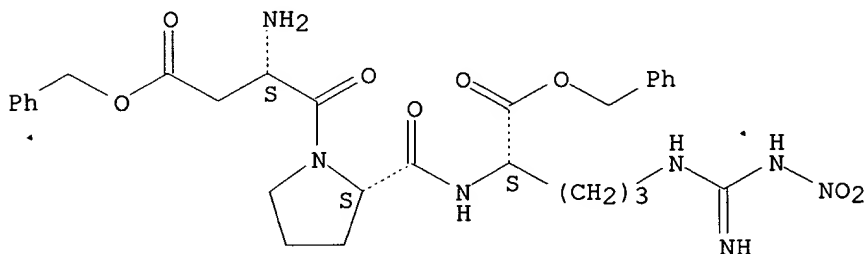
FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 7412 TO 9908
PROJECTED ANSWERS: 1899 TO 3261

L4 50 SEA SSS SAM L3

=> d scan

L4 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N2-(1-L-.alpha.-aspartyl-L-prolyl)-N5-
[imino(nitroamino)methyl]-, bis(phenylmethyl) ester (9CI)
MF C29 H37 N7 O8

Absolute stereochemistry.



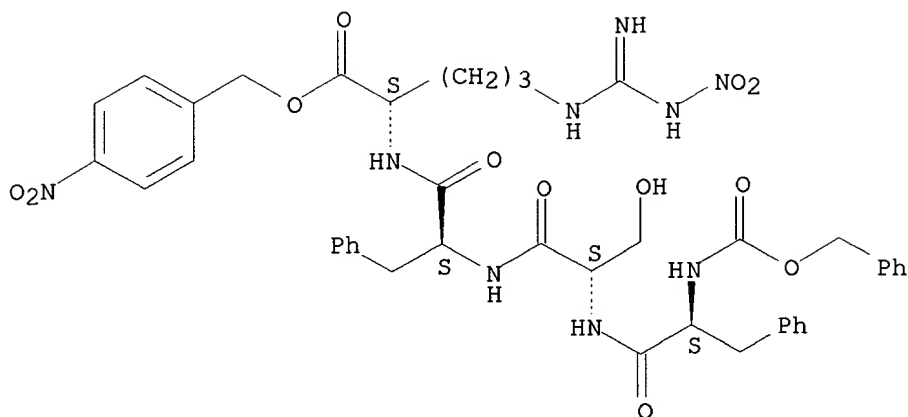
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

L4 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN Ornithine, N2-[N-[N-(N-carboxy-3-phenyl-L-alanyl)-L-seryl]-3-phenyl-L-
alanyl]-N5-nitroamidino-, N-benzyl p-nitrobenzyl ester, L- (6CI)
SQL 4
MF C42 H47 N9 O12

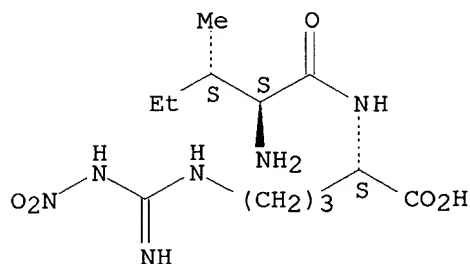
RELATED SEQUENCES AVAILABLE WITH SEQLINK

Absolute stereochemistry.



L4 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN L-Ornithine, L-isoleucyl-N5-[imino(nitroamino)methyl]- (9CI)
 MF C12 H24 N6 O5

Absolute stereochemistry.

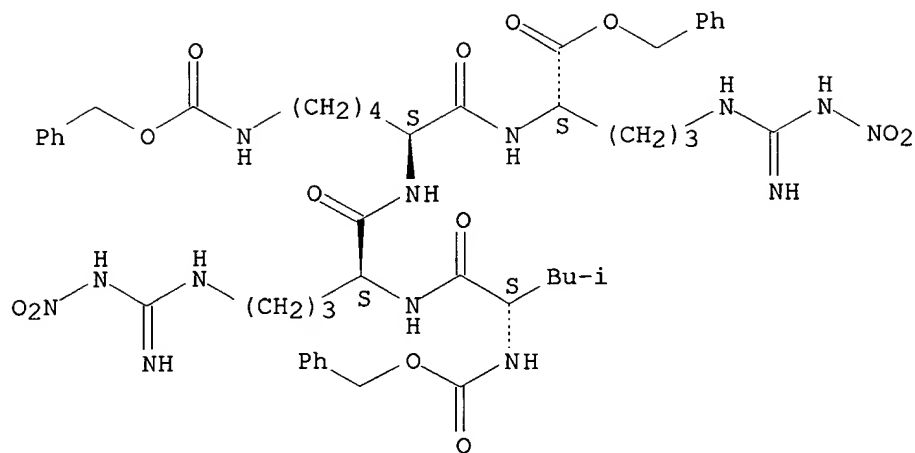


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L4 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN L-Ornithine, N5-[imino(nitroamino)methyl]-N2-[N2-[N5-[imino(nitroamino)methyl]-N2-[N-[(phenylmethoxy)carbonyl]-L-leucyl]-L-ornithyl]-N6-[(phenylmethoxy)carbonyl]-L-lysyl]-, phenylmethyl ester
 (9CI)
 SQL 4
 MF C47 H65 N13 O13

RELATED SEQUENCES AVAILABLE WITH SEQLINK

Absolute stereochemistry.

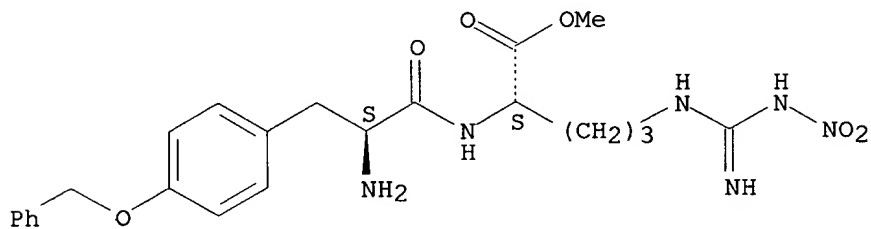


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

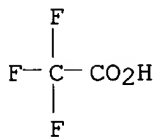
L4 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN L-Ornithine,
 N5-[imino(nitroamino)methyl]-N2-[O-(phenylmethyl)-L-tyrosyl]-
 , methyl ester, mono(trifluoroacetate) (9CI)
 MF C23 H30 N6 O6 . C2 H F3 O2

CM 1

Absolute stereochemistry.

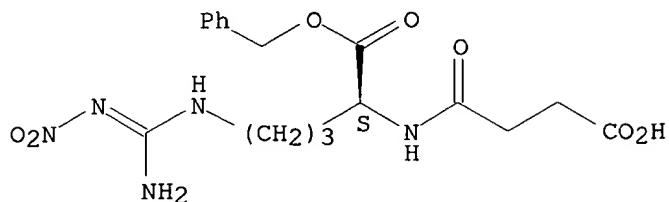


CM 2



L4 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN L-Ornithine, N2-(3-carboxy-1-oxopropyl)-N5-[imino(nitroamino)methyl]-,
 phenylmethyl ester (9CI)
 MF C17 H23 N5 O7

Absolute stereochemistry.
Double bond geometry unknown.

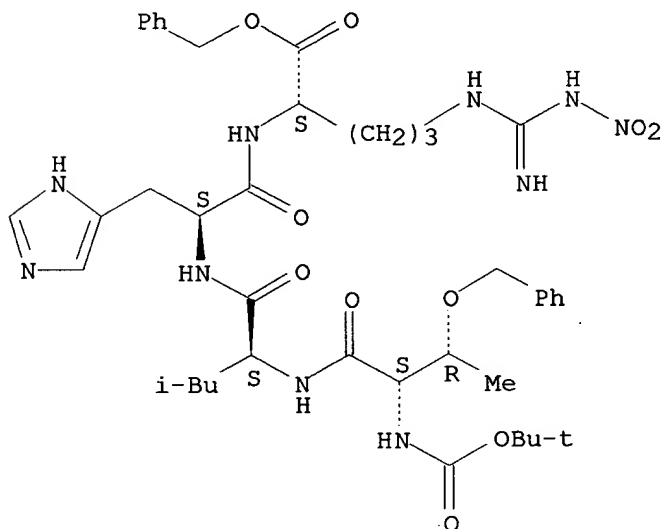


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L4 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine,
N2-[N-[N-[N-[(1,1-dimethylethoxy) carbonyl]-O-(phenylmethyl)-L-
threonyl]-L-leucyl]-L-histidyl]-N5-[imino(nitroamino)methyl]-,
phenylmethyl ester (9CI)
SQL 4
MF C41 H58 N10 O10

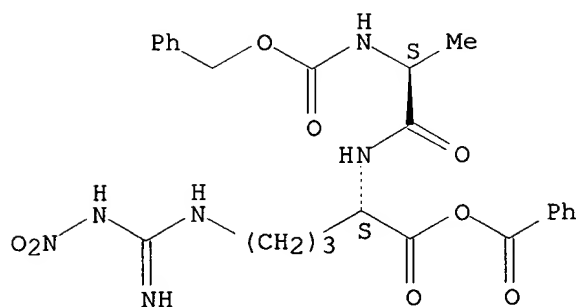
RELATED SEQUENCES AVAILABLE WITH SEQLINK

Absolute stereochemistry.



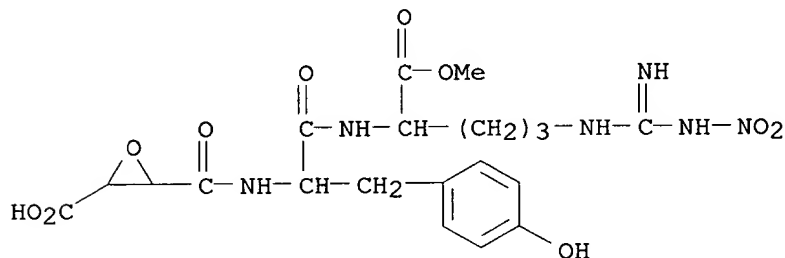
L4 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN INDEX NAME NOT YET ASSIGNED
MF C24 H28 N6 O8

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L4 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN L-Ornithine, N2-[N-[(3-carboxyoxiranyl)carbonyl]-L-tyrosyl]-N5-
 [imino(nitroamino)methyl]-, 1-methyl ester, (2R-trans)- (9CI)
 MF C20 H26 N6 O10



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L4 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN Ornithine, N2-[N-[1-[N-[N-[N-[1-[1-[N2-carboxy-N5-(nitroamidino)-L-
 ornithyl]-L-prolyl]-L-prolyl]glycyl]-L-alanyl]-L-seryl]-L-prolyl]-3-phenyl-
 L-alanyl]-N5-(nitroamidino)-, N-benzyl methyl ester (7CI)
 SQL 9
 MF C53 H75 N17 O17

RELATED SEQUENCES AVAILABLE WITH SEQLINK

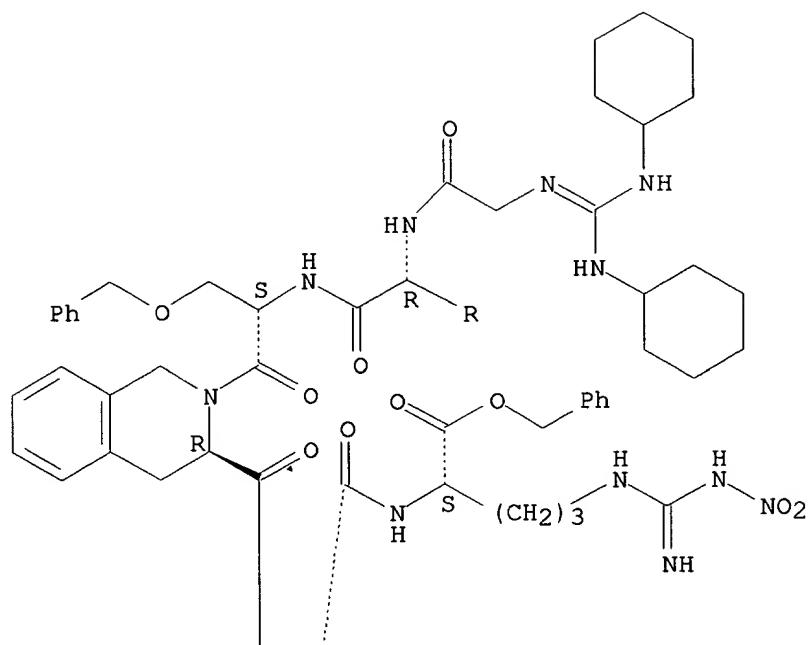
L4 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N-[bis(cyclohexylamino)methylene]glycyl-D-aspartoylbis[O-(phenylmethyl)-L-seryl-(3R)-1,2,3,4-tetrahydro-3-isoquinolinecarbonyl-(2S,3aS,7aS)-octahydro-1H-indole-2-carbonyl-N5-[imino(nitroamino)methyl]-,

bis(phenylmethyl) ester (9CI)
 SQL 10,6,4
 MF C103 H132 N20 O19

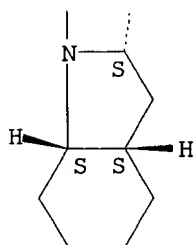
RELATED SEQUENCES AVAILABLE WITH SEQLINK

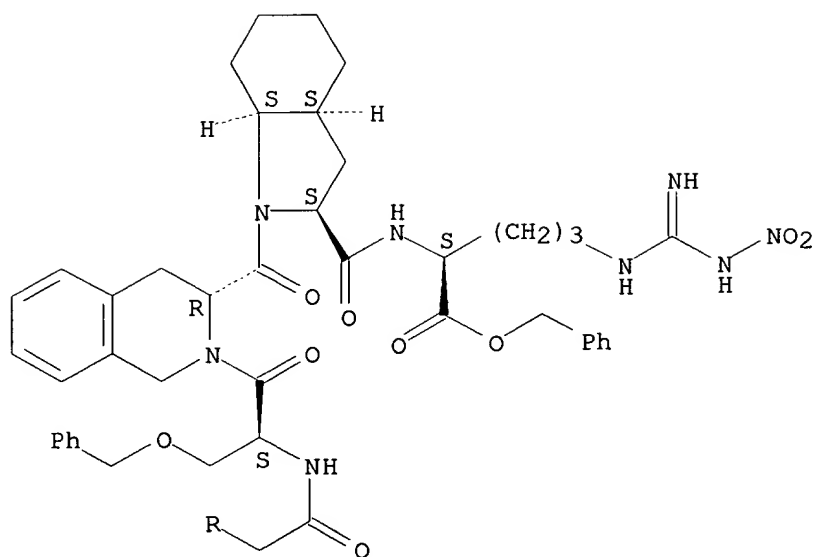
Absolute stereochemistry.

PAGE 1-A



PAGE 2-A





HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=>

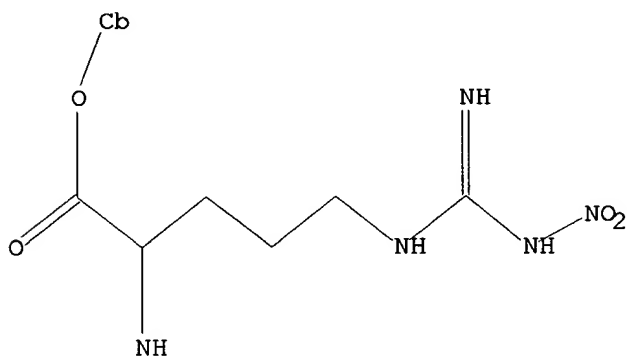
Uploading 09844816 search core nitro aryl.str

L5 STRUCTURE UPLOADED

=> d 15

L5 HAS NO ANSWERS

L5 STR



Structure attributes must be viewed using STN Express query preparation.

=> search 15 sss sam

SAMPLE SEARCH INITIATED 06:56:53 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 433 TO ITERATE

100.0% PROCESSED 433 ITERATIONS

2 ANSWERS

SEARCH TIME: 00.00.01

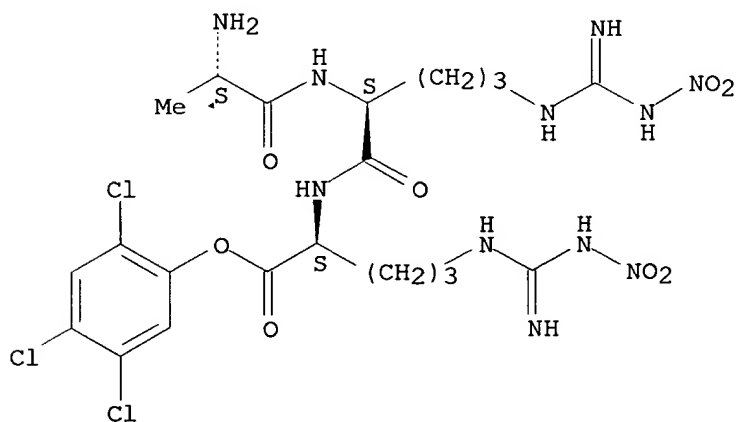
FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 7412 TO 9908
PROJECTED ANSWERS: 2 TO 124

L6 2 SEA SSS SAM L5

=> d scan

L6 2 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N2-[N2-L-alanyl-N5-[imino(nitroamino)methyl]-L-ornithyl]-N5-[imino(nitroamino)methyl]-, 2,4,5-trichlorophenyl ester, monohydrobromide (9CI)
MF C21 H30 Cl3 N11 O8 . Br H
CI COM

Absolute stereochemistry.

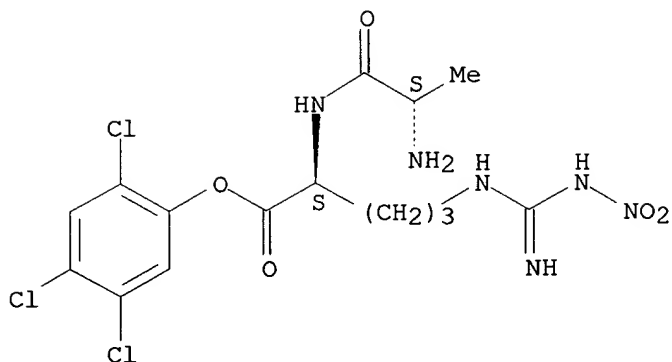


● HBr

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L6 2 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N2-L-alanyl-N5-[imino(nitroamino)methyl]-, 2,4,5-trichlorophenyl ester (9CI)
MF C15 H19 Cl3 N6 O5
CI COM

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> search 15 sss full;
 FULL SEARCH INITIATED 07:00:25 FILE 'REGISTRY'
 FULL SCREEN SEARCH COMPLETED - 8292 TO ITERATE

100.0% PROCESSED 8292 ITERATIONS
 SEARCH TIME: 00.00.01

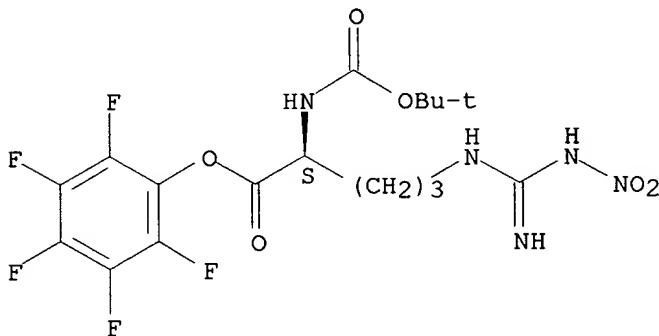
48 ANSWERS

L7 48 SEA SSS FUL L5

=> d scan

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN L-Ornithine, N2-[(1,1-dimethylethoxy)carbonyl]-N5-
 [imino(nitroamino)methyl]-, pentafluorophenyl ester (9CI)
 MF C17 H20 F5 N5 O6

Absolute stereochemistry.

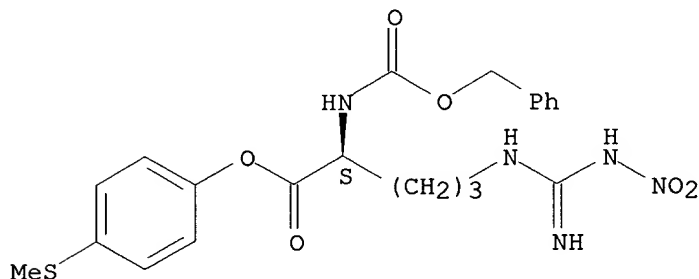


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):20

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN Ornithine, N2-carboxy-N5-(nitroamidino)-, N2-benzyl p-(methylthio)phenyl
ester, L- (8CI)
MF C21 H25 N5 O6 S

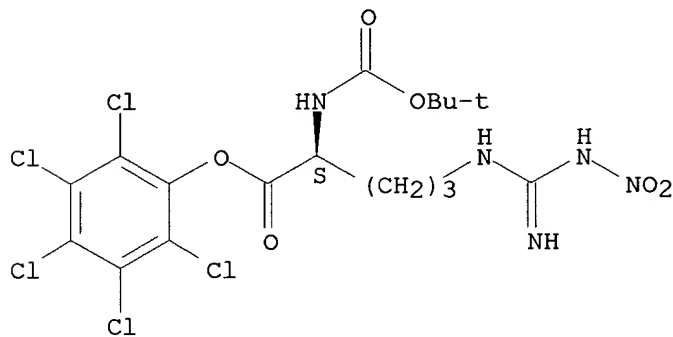
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N2-[(1,1-dimethylethoxy)carbonyl]-N5-
[imino(nitroamino)methyl]-, pentachlorophenyl ester (9CI)
MF C17 H20 Cl5 N5 O6

Absolute stereochemistry.

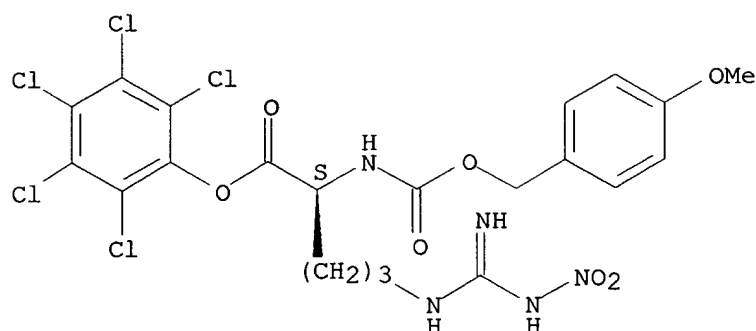


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N5-[imino(nitroamino)methyl]-N2-[(4-
methoxyphenyl)methoxy]carbonyl]-, pentachlorophenyl ester (9CI)

MF C21 H20 Cl5 N5 O7

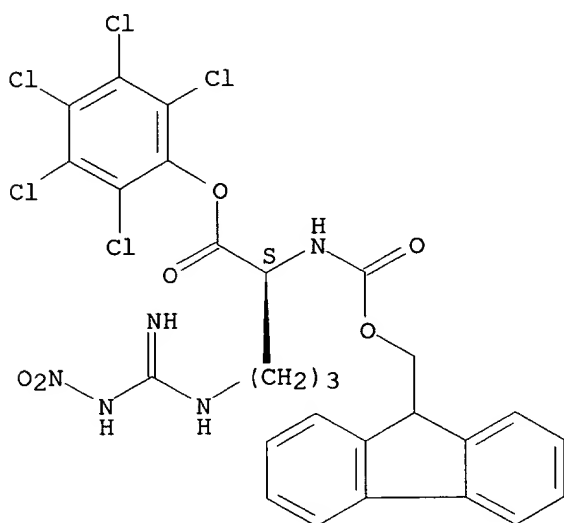
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N2-[(9H-fluoren-9-ylmethoxy)carbonyl]-N5-
[imino(nitroamino)methyl]-, pentachlorophenyl ester (9CI)
MF C27 H22 Cl5 N5 O6

Absolute stereochemistry.

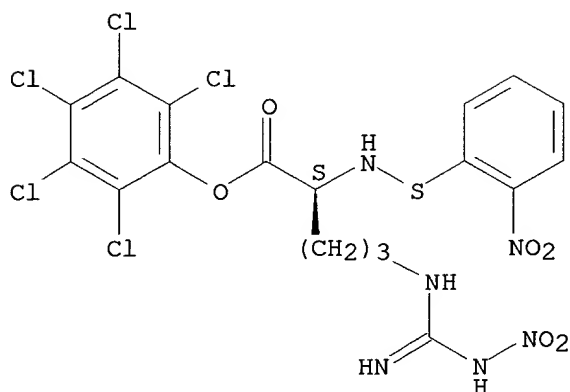


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN Ornithine, N5-(nitroamidino)-N2-[(o-nitrophenyl)thio]-, pentachlorophenyl

ester, L- (8CI)
 MF C18 H15 Cl5 N6 O6 S

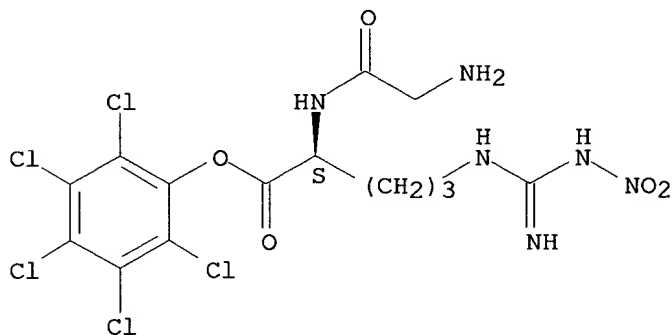
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN L-Ornithine, N2-glycyl-N5-[imino(nitroamino)methyl]-, pentachlorophenyl
 ester, monohydrobromide (9CI)
 MF C14 H15 Cl5 N6 O5 . Br H

Absolute stereochemistry.



● HBr

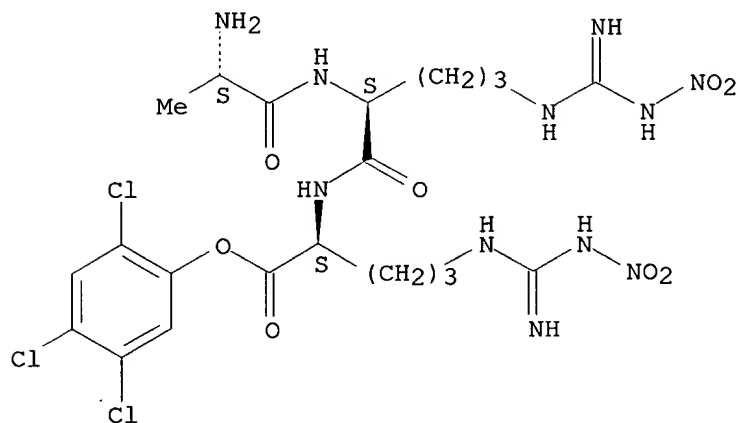
L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN L-Ornithine, N2-[N2-L-alanyl-N5-[imino(nitroamino)methyl]-L-ornithyl]-N5-
 [imino(nitroamino)methyl]-, 2,4,5-trichlorophenyl ester,
 monohydrobromide,
 homopolymer (9CI)
 MF (C21 H30 Cl3 N11 O8 . Br H)x

CI PMS

RELATED POLYMERS AVAILABLE WITH POLYLINK

CM 1

Absolute stereochemistry.



● HBr

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS

IN L-Ornithine,

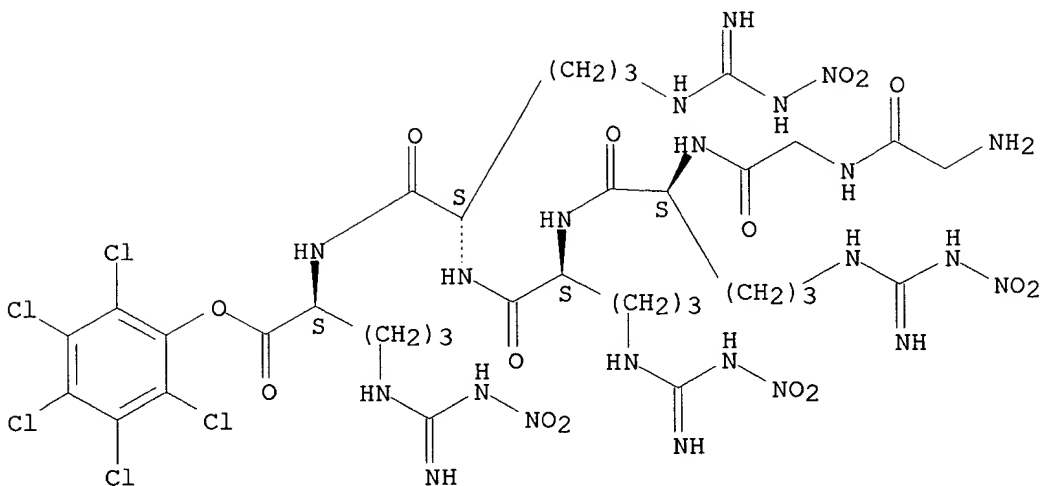
N2-[N2-[N2-[N2-(N-glycylglycyl)-N5-[imino(nitroamino)methyl]-L-ornithyl]-N5-[imino(nitroamino)methyl]-L-ornithyl]-N5-[imino(nitroamino)methyl]-L-ornithyl]-N5-[imino(nitroamino)methyl]-, pentachlorophenyl ester, monohydrobromide (9CI)

SQL 6

MF C34 H51 Cl5 N22 O15 . Br H

RELATED SEQUENCES AVAILABLE WITH SEQLINK

Absolute stereochemistry.



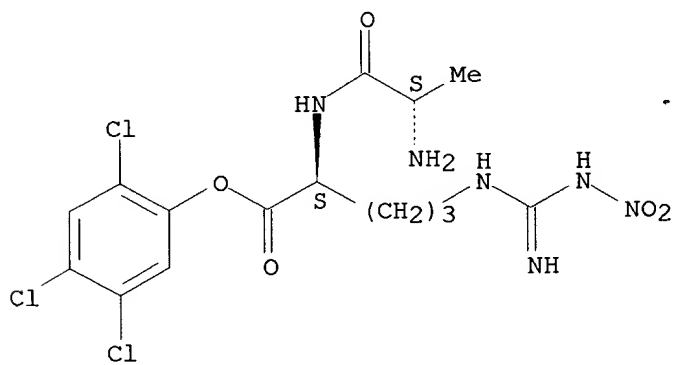
● HBr

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN L-Ornithine, N2-L-alanyl-N5-[imino(nitroamino)methyl]-,
 2,4,5-trichlorophenyl ester, mono(trifluoroacetate), homopolymer (9CI)
 MF (C15 H19 Cl3 N6 O5 . C2 H F3 O2)x
 CI PMS

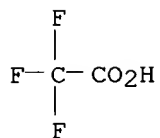
RELATED POLYMERS AVAILABLE WITH POLYLINK

CM 1

Absolute stereochemistry.



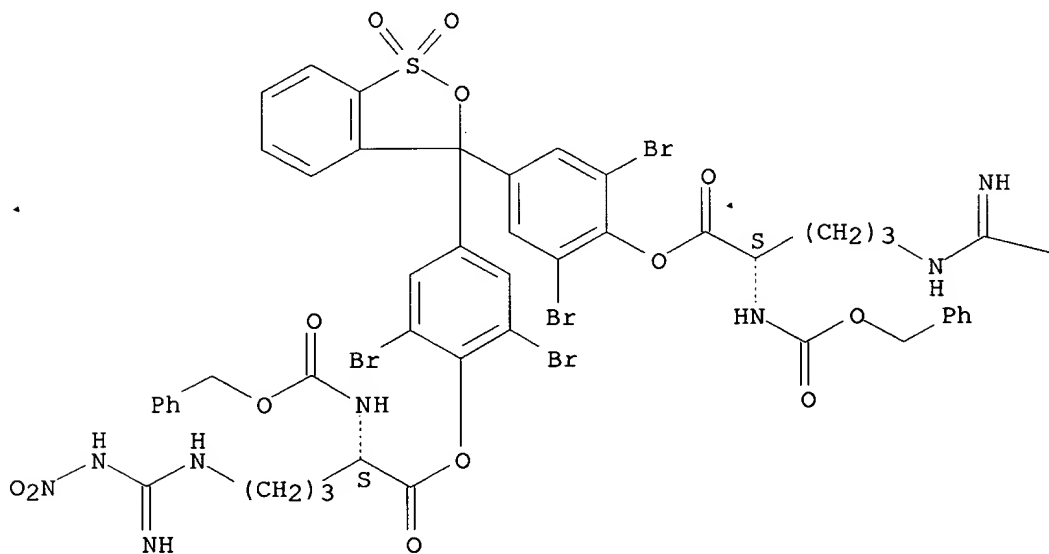
CM 2



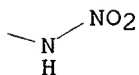
L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN L-Ornithine, N5-[imino(nitroamino)methyl]-N2-[(phenylmethoxy)carbonyl]-,
 (1,1-dioxido-3H-2,1-benzoxathiol-3-ylidene)bis(2,6-dibromo-4,1-phenylene)
 ester (9CI)
 MF C47 H44 Br4 N10 O15 S

Absolute stereochemistry.

PAGE 1-A



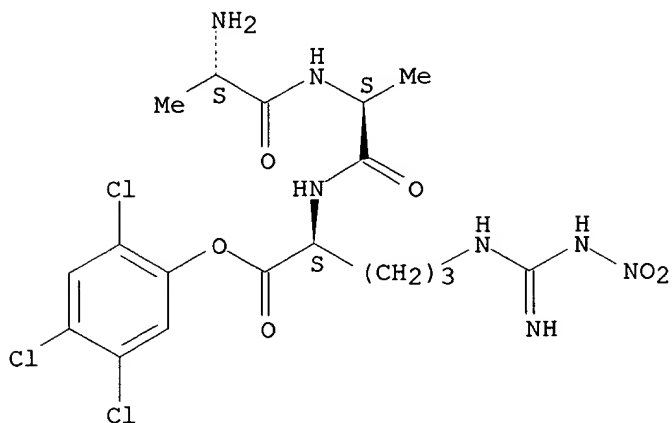
PAGE 1-B



L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS

IN L-Ornithine, N2-(N-L-alanyl-L-alanyl)-N5-[imino(nitroamino)methyl]-,
2,4,5-trichlorophenyl ester (9CI)
MF C18 H24 Cl3 N7 O6
CI COM

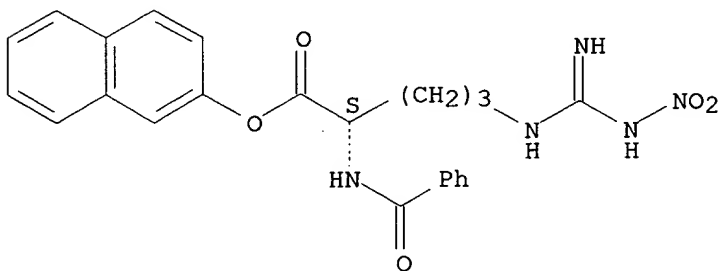
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N2-benzoyl-N5-[imino(nitroamino)methyl]-, 2-naphthalenyl
ester (9CI)
MF C23 H23 N5 O5

Absolute stereochemistry.

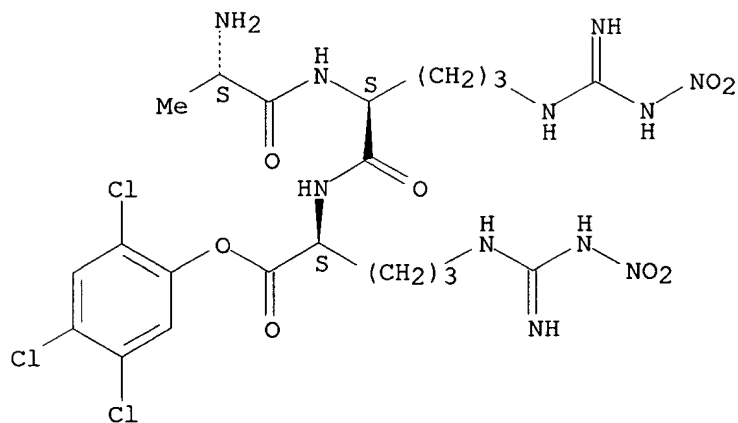


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N2-[N2-L-alanyl-N5-[imino(nitroamino)methyl]-L-ornithyl]-N5-
[imino(nitroamino)methyl]-, 2,4,5-trichlorophenyl ester, monohydrobromide
(9CI)

MF C21 H30 Cl3 N11 O8 . Br H
 CI COM

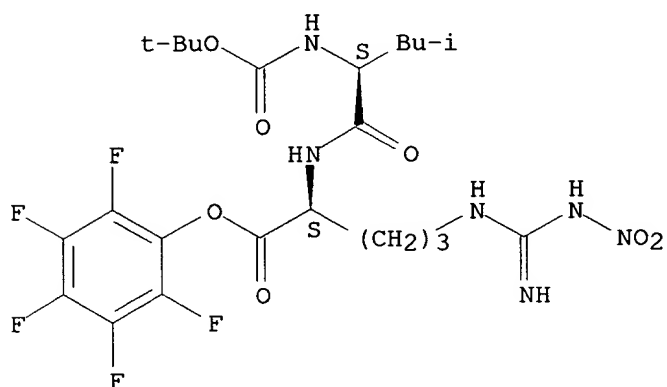
Absolute stereochemistry.



● HBr

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN L-Ornithine, N2-[N-[(1,1-dimethylethoxy)carbonyl]-L-leucyl]-N5-
 [imino(nitroamino)methyl]-, pentafluorophenyl ester (9CI)
 MF C23 H31 F5 N6 O7

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

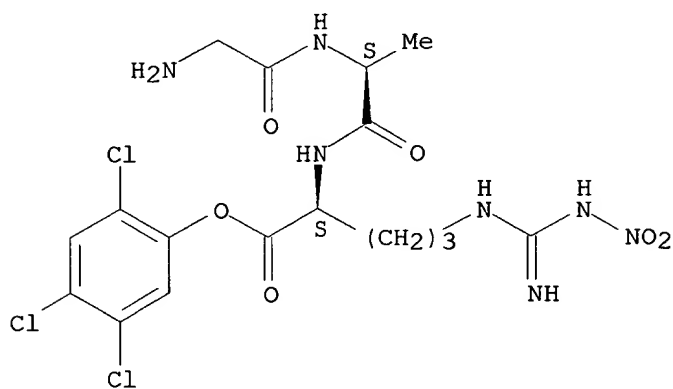
L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS

IN L-Ornithine, N2-(N-glycyl-L-alanyl)-N5-[imino(nitroamino)methyl]-,
 2,4,5-trichlorophenyl ester, monohydrobromide, homopolymer (9CI)
 MF (C17 H22 Cl3 N7 O6 . Br H)x
 CI PMS

RELATED POLYMERS AVAILABLE WITH POLYLINK

CM 1

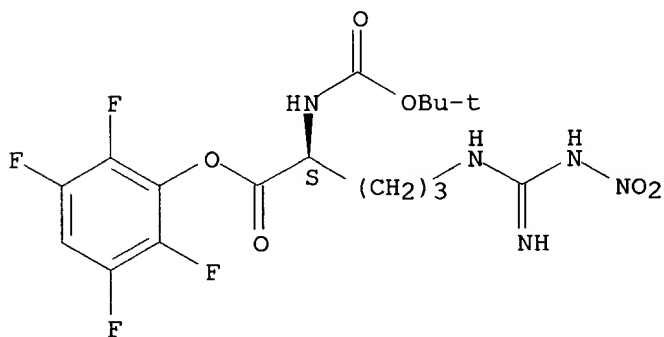
Absolute stereochemistry.



● HBr

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN L-Ornithine, N2-[(1,1-dimethylethoxy)carbonyl]-N5-
 [imino(nitroamino)methyl]-, 2,3,5,6-tetrafluorophenyl ester (9CI)
 MF C17 H21 F4 N5 O6

Absolute stereochemistry.



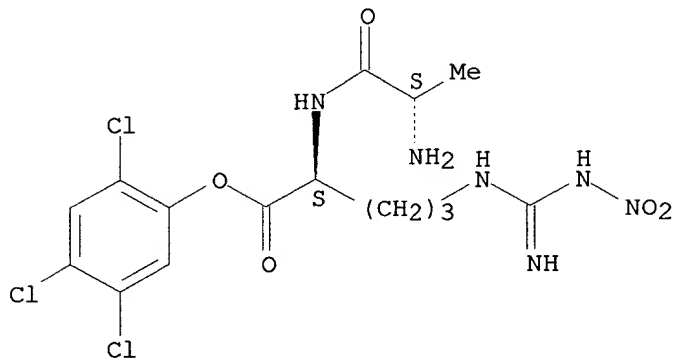
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN L-Ornithine, N2-L-alanyl-N5-[imino(nitroamino)methyl]-,

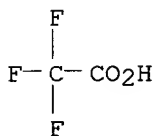
2,4,5-trichlorophenyl ester, mono(trifluoroacetate) (9CI)
 MF C15 H19 Cl3 N6 O5 . C2 H F3 O2

CM 1

Absolute stereochemistry.

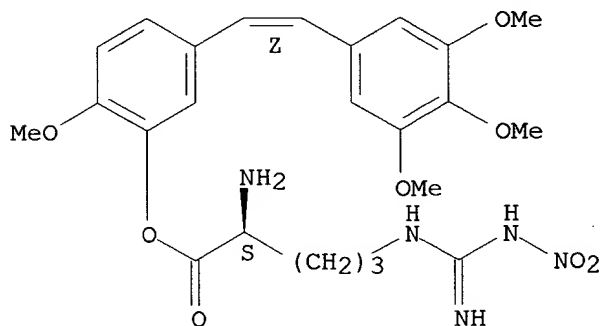


CM 2



L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN L-Ornithine, N5-[imino(nitroamino)methyl]-, 2-methoxy-5-[(1Z)-2-(3,4,5-trimethoxyphenyl)ethenyl]phenyl ester (9CI)
 MF C24 H31 N5 O8

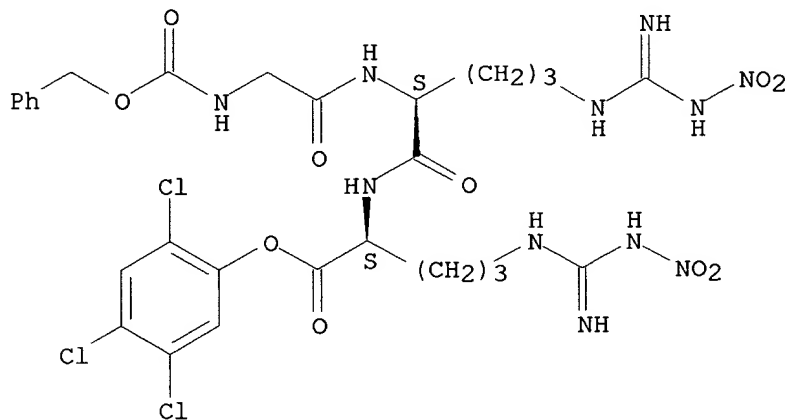
Absolute stereochemistry.
 Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN L-Ornithine,
 N5-[imino(nitroamino)methyl]-N2-[N5-[imino(nitroamino)methyl]-
 N2-[N-[(phenylmethoxy) carbonyl]glycyl]-L-ornithyl]-,
 2,4,5-trichlorophenyl
 ester (9CI)
 MF C28 H34 Cl3 N11 O10

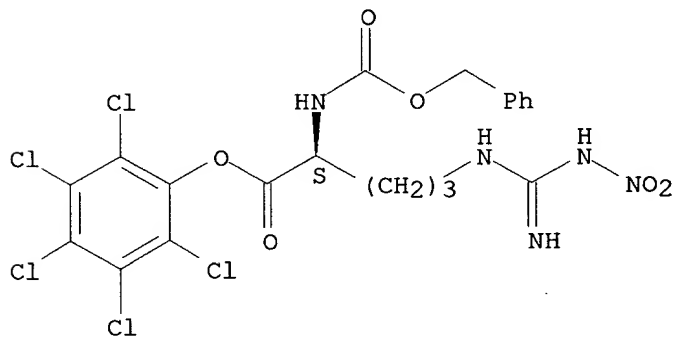
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN L-Ornithine, N5-[imino(nitroamino)methyl]-N2-[(phenylmethoxy) carbonyl]-,
 pentachlorophenyl ester (9CI)
 MF C20 H18 Cl5 N5 O6

Absolute stereochemistry.



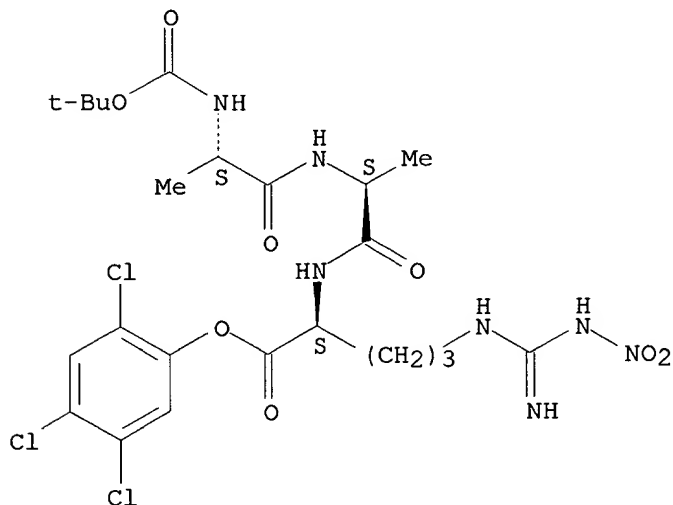
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):20

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS

IN L-Ornithine, N2-[N-[N-[(1,1-dimethylethoxy)carbonyl]-L-alanyl]-L-alanyl]-
 N5-[imino(nitroamino)methyl]-, 2,4,5-trichlorophenyl ester (9CI)
 MF C23 H32 Cl3 N7 O8

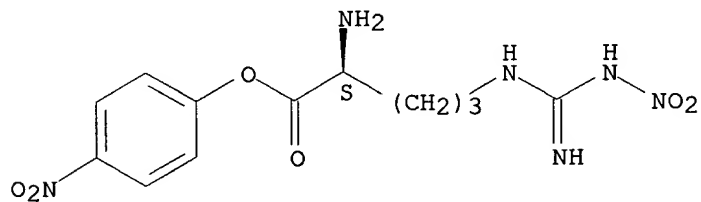
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN L-Ornithine, N5-[imino(nitroamino)methyl]-, 4-nitrophenyl ester,
 monohydrobromide (9CI)
 MF C12 H16 N6 O6 . Br H

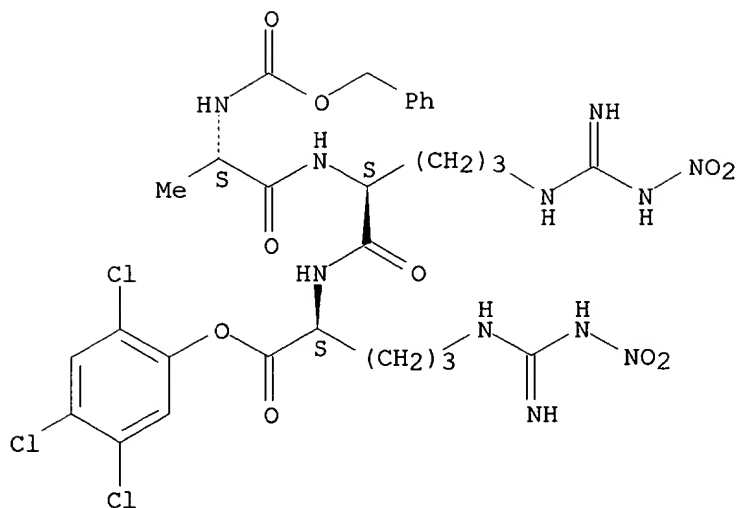
Absolute stereochemistry.



● HBr

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN L-Ornithine,
 N5-[imino(nitroamino)methyl]-N2-[N5-[imino(nitroamino)methyl]-
 N2-[N-[(phenylmethoxy)carbonyl]-L-alanyl]-L-ornithyl]-,
 2,4,5-trichlorophenyl ester (9CI)
 MF C29 H36 Cl3 N11 O10

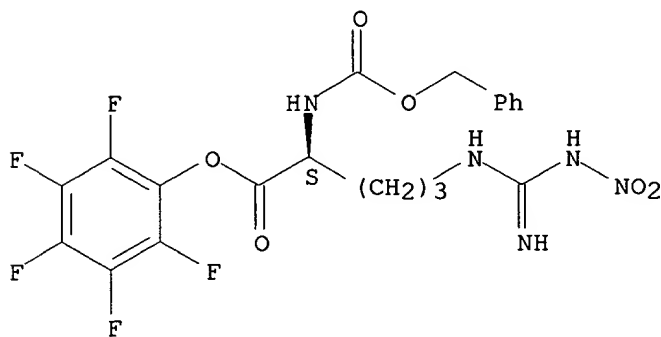
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN L-Ornithine, N5-[imino(nitroamino)methyl]-N2-[(phenylmethoxy)carbonyl]-,
 pentafluorophenyl ester (9CI)
 MF C20 H18 F5 N5 O6

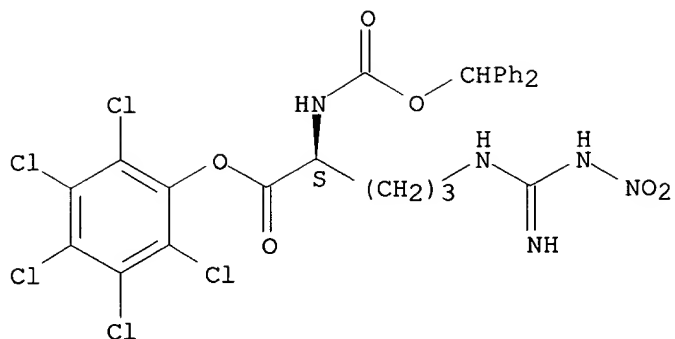
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN L-Ornithine,
 N2-[(diphenylmethoxy)carbonyl]-N5-[imino(nitroamino)methyl]-,
 pentachlorophenyl ester (9CI)
 MF C26 H22 Cl5 N5 O6

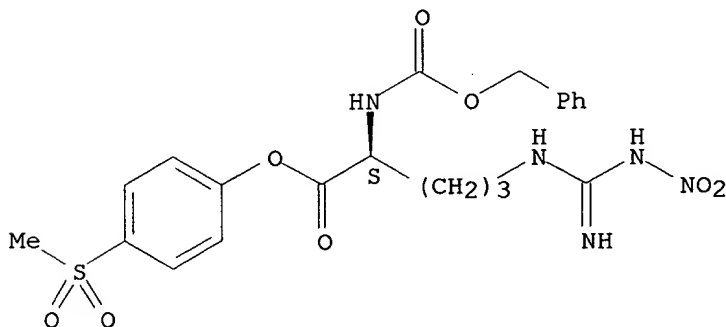
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN Ornithine, N2-carboxy-N5-(nitroamidino)-, N2-benzyl p-
 (methylsulfonyl)phenyl ester, L- (8CI)
 MF C21 H25 N5 O8 S

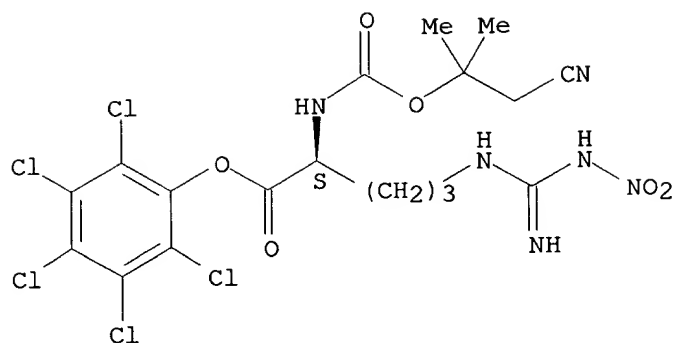
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN L-Ornithine, N2-[(2-cyano-1,1-dimethylethoxy)carbonyl]-N5-
 [imino(nitroamino)methyl]-, pentachlorophenyl ester (9CI)
 MF C18 H19 Cl5 N6 O6

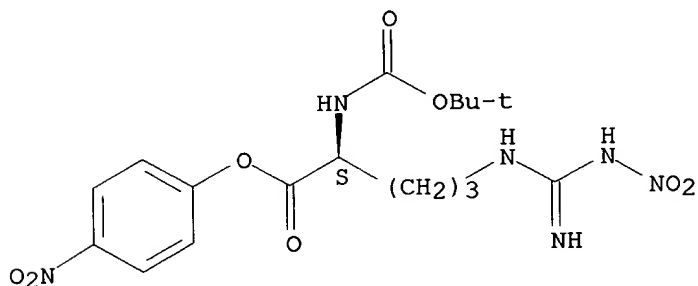
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN L-Ornithine, N2-[(1,1-dimethylethoxy)carbonyl]-N5-
 [imino(nitroamino)methyl]-, 4-nitrophenyl ester (9CI)
 MF C17 H24 N6 O8

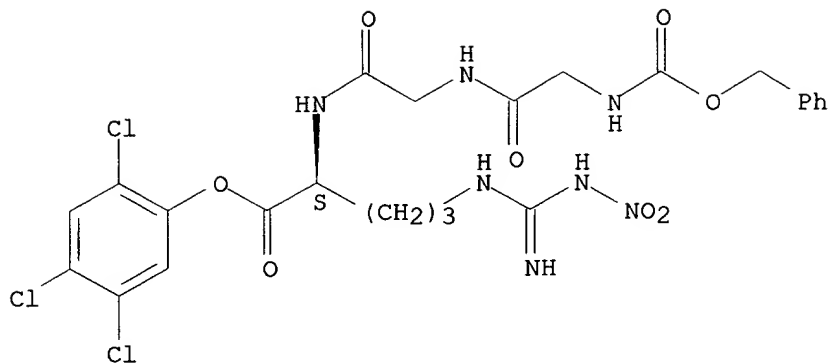
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN L-Ornithine, N5-[imino(nitroamino)methyl]-N2-[N-
 [(phenylmethoxy)carbonyl]glycyl]glycyl-, 2,4,5-trichlorophenyl ester
 (9CI)
 MF C24 H26 Cl3 N7 O8

Absolute stereochemistry.



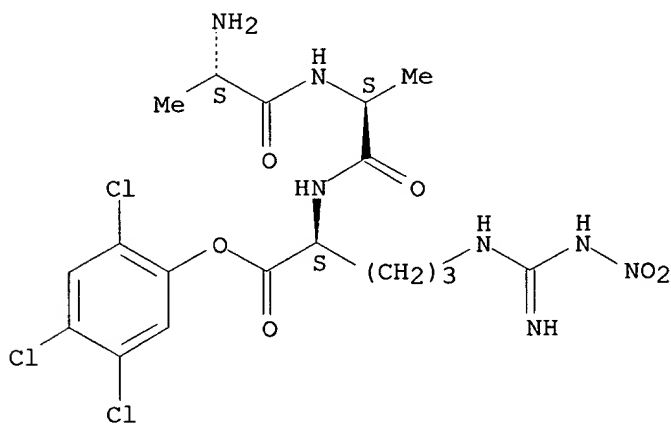
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN L-Ornithine, N2-(N-L-alanyl-L-alanyl)-N5-[imino(nitroamino)methyl]-,
 2,4,5-trichlorophenyl ester, mono(trifluoroacetate), homopolymer (9CI)
 MF (C18 H24 Cl3 N7 O6 . C2 H F3 O2)x
 CI PMS

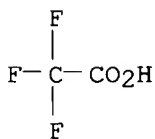
RELATED POLYMERS AVAILABLE WITH POLYLINK

CM 1

Absolute stereochemistry.



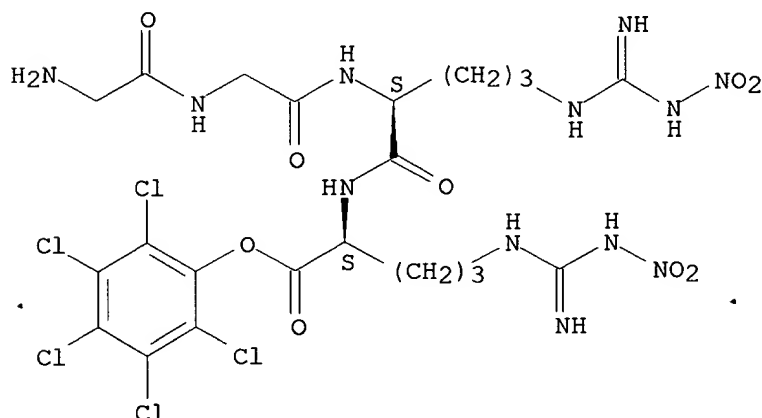
CM 2



L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN L-Ornithine, N2-[N2-(N-glycylglycyl)-N5-[imino(nitroamino)methyl]-L-
 ornithyl]-N5-[imino(nitroamino)methyl]-, pentachlorophenyl ester,
 monohydrobromide (9CI)
 SQL 4
 MF C22 H29 Cl5 N12 O9 . Br H

RELATED SEQUENCES AVAILABLE WITH SEQLINK

Absolute stereochemistry.



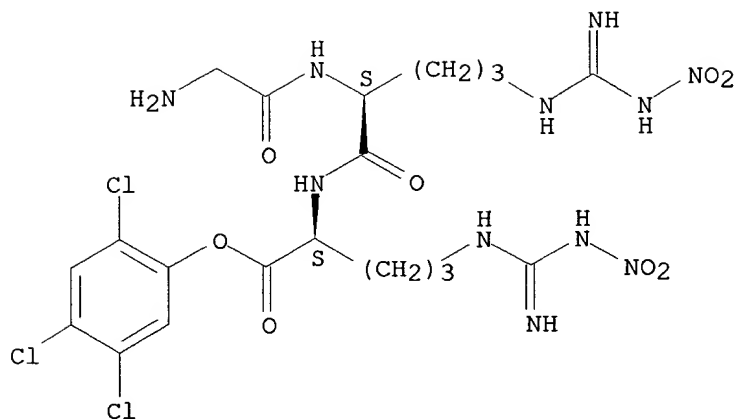
● HBr

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN L-Ornithine, N2-[N2-glycyl-N5-[imino(nitroamino)methyl]-L-ornithyl]-N5-
 [imino(nitroamino)methyl]-, 2,4,5-trichlorophenyl ester,
 monohydrobromide,
 homopolymer (9CI)
 MF (C20 H28 Cl3 N11 O8 . Br H)x
 CI PMS

RELATED POLYMERS AVAILABLE WITH POLYLINK

CM 1

Absolute stereochemistry.



● HBr

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS

IN L-Ornithine,

N5-[imino(nitroamino)methyl]-N2-[N5-[imino(nitroamino)methyl]-

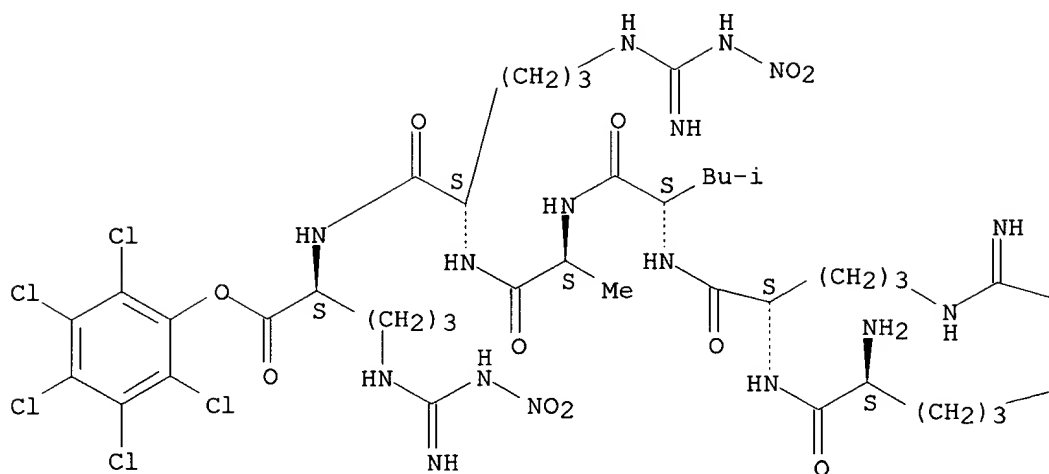
N2-[N-[N-[N5-[imino(nitroamino)methyl]-N2-[N5-[imino(nitroamino)methyl]-L-
ornithyl]-L-ornithyl]-L-leucyl]-L-alanyl]-L-ornithyl]-, pentachlorophenyl
ester, monohydrobromide (9CI)

SQL 6

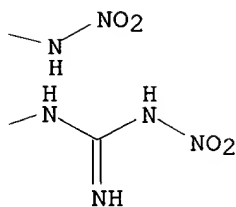
MF C39 H61 Cl5 N22 O15 . Br H

RELATED SEQUENCES AVAILABLE WITH SEQLINK

Absolute stereochemistry.

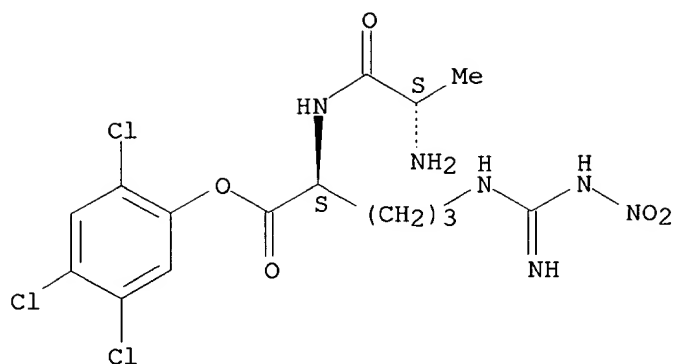


● HBr



L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN L-Ornithine, N2-L-alanyl-N5-[imino(nitroamino)methyl]-,
 2,4,5-trichlorophenyl ester (9CI)
 MF C15 H19 Cl3 N6 O5
 CI COM

Absolute stereochemistry.

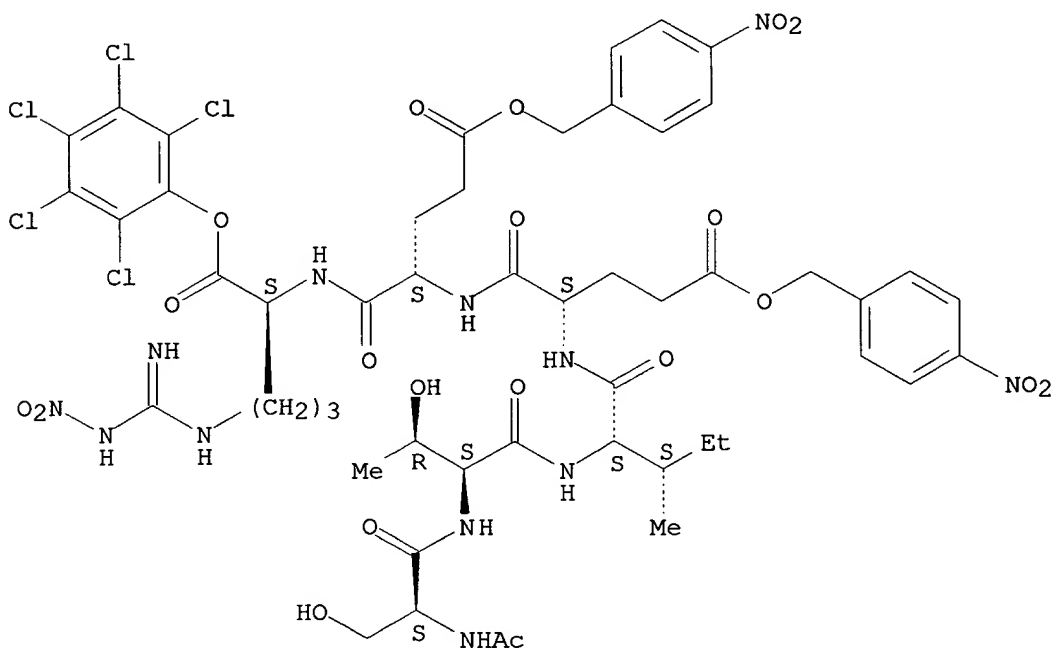


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN L-Ornithine,
 N2-[N-[N-[N-[N-(N-acetyl-L-seryl)-L-threonyl]-L-isoleucyl]-L-
 .alpha.-glutamyl]-L-.alpha.-glutamyl]-N5-[imino(nitroamino)methyl]-,
 5,5'-bis[(4-nitrophenyl)methyl] 1-(pentachlorophenyl) ester (9CI)
 SQL 6
 MF C51 H61 Cl5 N12 O20

RELATED SEQUENCES AVAILABLE WITH SEQLINK

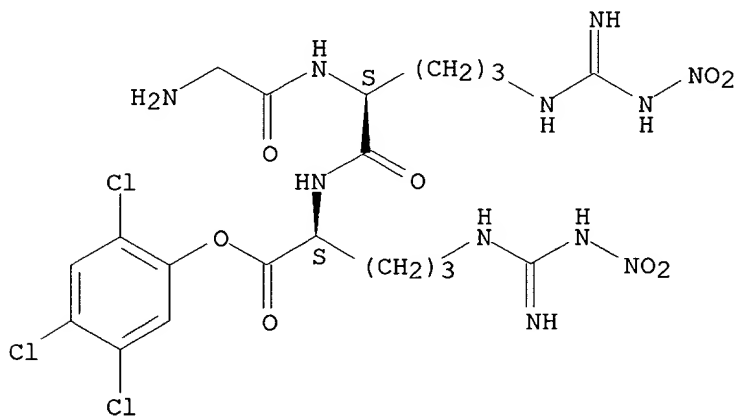
Absolute stereochemistry.



L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS

IN L-Ornithine, N2-[N2-glycyl-N5-[imino(nitroamino)methyl]-L-ornithyl]-N5-[imino(nitroamino)methyl]-, 2,4,5-trichlorophenyl ester, monohydrobromide (9CI)
 MF C20 H28 Cl3 N11 O8 . Br H
 CI COM

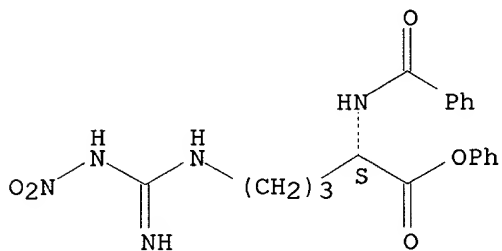
Absolute stereochemistry.



● HBr

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN L-Ornithine, N2-benzoyl-N5-[imino(nitroamino)methyl]-, phenyl ester (9CI)
 MF C19 H21 N5 O5

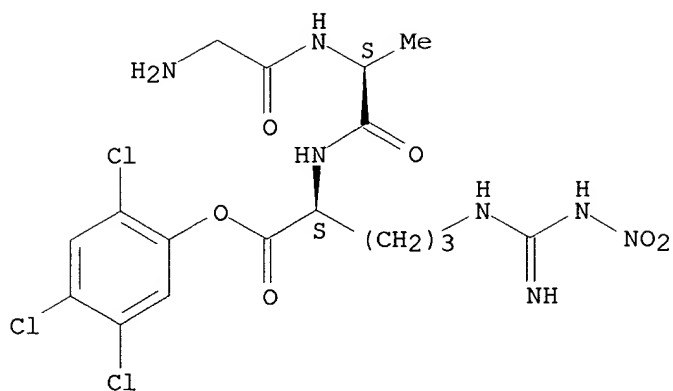
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN L-Ornithine, N2-(N-glycyl-L-alanyl)-N5-[imino(nitroamino)methyl]-, 2,4,5-trichlorophenyl ester, monohydrobromide (9CI)
 MF C17 H22 Cl3 N7 O6 . Br H
 CI COM

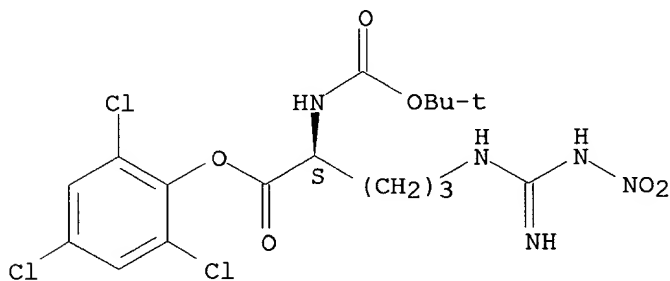
Absolute stereochemistry.



● HBr

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN L-Ornithine, N2-[(1,1-dimethylethoxy)carbonyl]-N5-
 [imino(nitroamino)methyl]-, 2,4,6-trichlorophenyl ester (9CI)
 MF C17 H22 Cl3 N5 O6

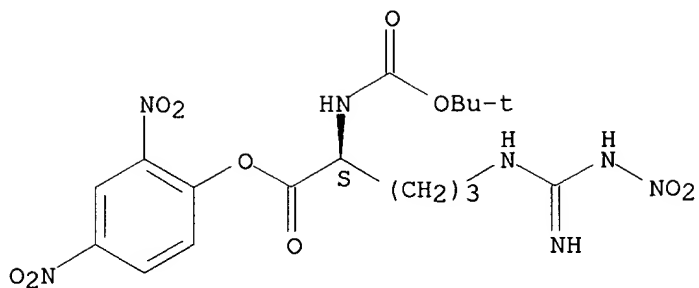
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN L-Ornithine, N2-[(1,1-dimethylethoxy)carbonyl]-N5-
 [imino(nitroamino)methyl]-, 2,4-dinitrophenyl ester (9CI)
 MF C17 H23 N7 O10

Absolute stereochemistry.

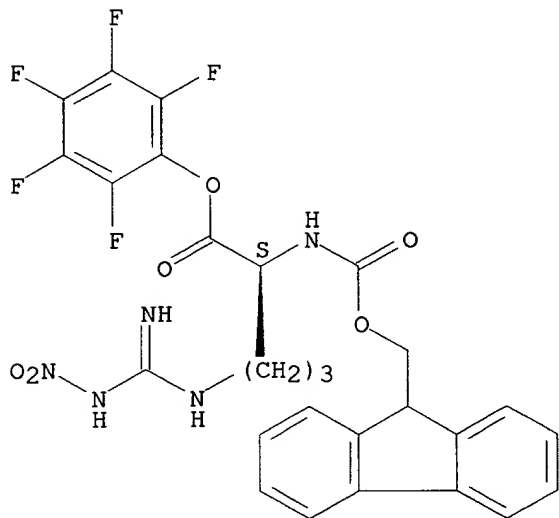


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN L-Ornithine, N2-[(9H-fluoren-9-ylmethoxy)carbonyl]-N5-
 [imino(nitroamino)methyl]-, pentafluorophenyl ester (9CI)
 MF C27 H22 F5 N5 O6

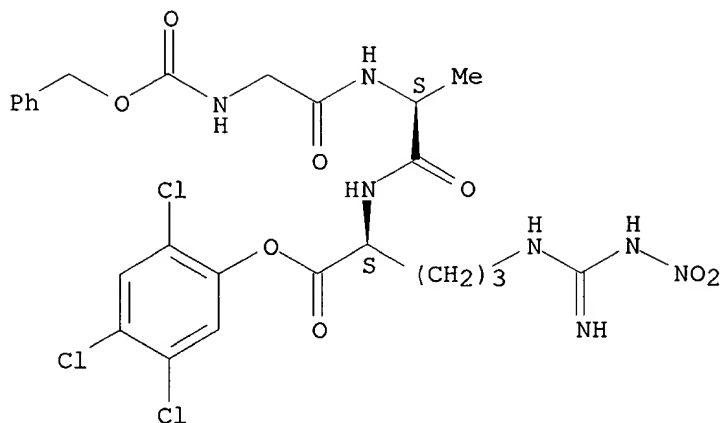
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN L-Ornithine, N5-[imino(nitroamino)methyl]-N2-[N-[N-
 [(phenylmethoxy)carbonyl]glycyl]-L-alanyl]-, 2,4,5-trichlorophenyl ester
 (9CI)
 MF C25 H28 Cl3 N7 O8

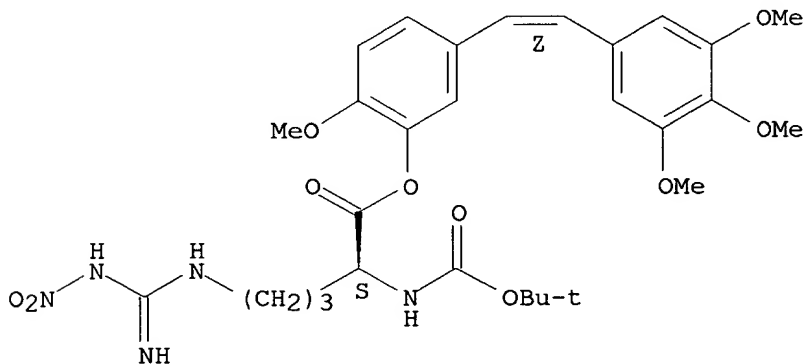
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN L-Ornithine, N2-[(1,1-dimethylethoxy)carbonyl]-N5-
 [imino(nitroamino)methyl]-, 2-methoxy-5-[(1Z)-2-(3,4,5-
 trimethoxyphenyl)ethenyl]phenyl ester (9CI)
 MF C29 H39 N5 O10

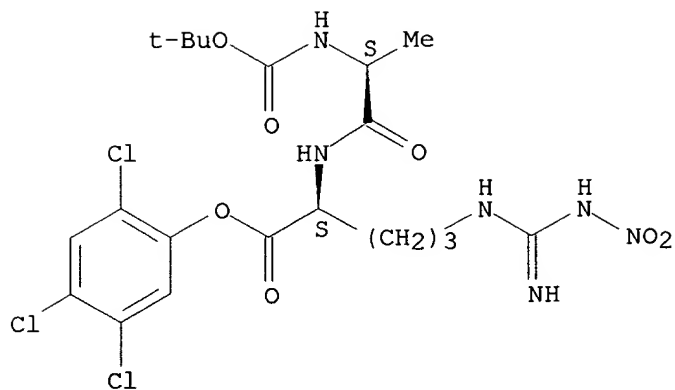
Absolute stereochemistry.
 Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN L-Ornithine, N2-[N-[(1,1-dimethylethoxy)carbonyl]-L-alanyl]-N5-
 [imino(nitroamino)methyl]-, 2,4,5-trichlorophenyl ester (9CI)
 MF C20 H27 Cl3 N6 O7

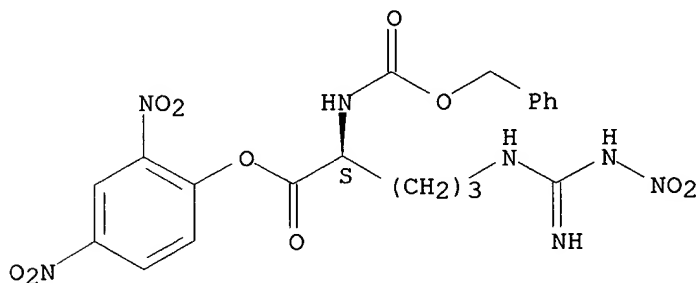
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN L-Ornithine, N5-[imino(nitroamino)methyl]-N2-[(phenylmethoxy)carbonyl]-,
 2,4-dinitrophenyl ester (9CI)
 MF C20 H21 N7 O10

Absolute stereochemistry.

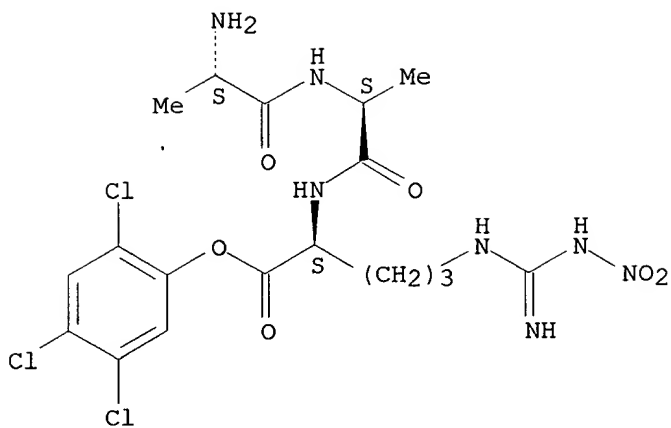


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

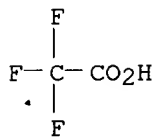
L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN L-Ornithine, N2-(N-L-alanyl-L-alanyl)-N5-[imino(nitroamino)methyl]-,
 2,4,5-trichlorophenyl ester, mono(trifluoroacetate) (9CI)
 MF C18 H24 Cl3 N7 O6 . C2 H F3 O2

CM 1

Absolute stereochemistry.

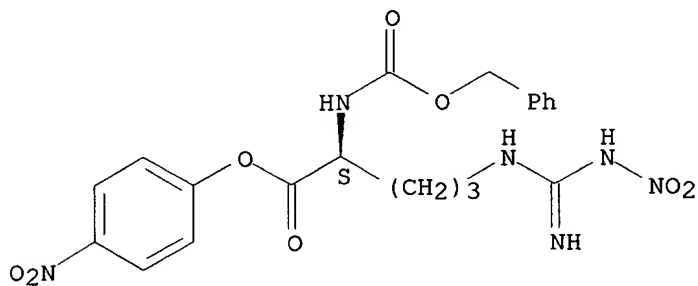


CM 2



L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN L-Ornithine, N5-[imino(nitroamino)methyl]-N2-[(phenylmethoxy)carbonyl]-,
 4-nitrophenyl ester (9CI)
 MF C20 H22 N6 O8

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> file caplus
 COST IN U.S. DOLLARS

SINCE FILE ENTRY TOTAL SESSION

FULL ESTIMATED COST

154.55

154.76

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FILE COVERS 1907 - 28 Apr 2003 VOL 138 ISS 18
FILE LAST UPDATED: 27 Apr 2003 (20030427/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> 17

L8 94 L7

=> trypsin

63732 TRYPSIN

469 TRYPSINS

L9 63775 TRYPSIN

(TRYPSIN OR TRYPSINS)

=> 18 and 19

L10 2 L8 AND L9

=> d l10 ti fbib abs

L10 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS

TI 4-Methylumbelliferyl esters as fluorogenic substrates for proteases

AN 1983:175469 CAPLUS

DN 98:175469

TI 4-Methylumbelliferyl esters as fluorogenic substrates for proteases

AU Gray, C. J.; D'Silva, C. J. S. J.; Boukouvalas, J.; Barker, S. A.

CS Dep. Chem., Univ. Birmingham, Birmingham, B15 2TT, UK

SO Enzyme and Microbial Technology (1983), 5(2), 137-42

CODEN: EMTED2; ISSN: 0141-0229

DT Journal

LA English

AB 4-Methylumbelliferyl esters of amino acid derivs. were synthesized by the carbodiimide, disulfite, and carbonate methods. Of these, the 1st method was capable of prepg. 2-naphthyl and 4-methylumbelliferyl esters of benzoylglycine, benzyloxycarbonylglycine, and

benzyloxycarbonylcitrulline,

but not of benzoyl-NG-nitroarginine. 2-Naphthyl benzoyl-NG-nitroargininate was prepd. successfully with bis(2-naphthyl)sulfite.

Bis(4-methylumbelliferyl)sulfite could not be prepd., but

4-methylumbelliferyl benzoyl-NG-nitroargininate was obtained by the use

of

an equil. method using di-Ph sulphite in the presence of 4-methylumbelliferone. A new reagent, Ph 4-methylumbelliferyl carbonate, was synthesized and used for the prepn. of the 4-methylumbelliferyl esters of benzoylglycine, benzyloxycarbonylglycine, and benzoyl-NG-nitroarginine. The 4-methylumbelliferyl esters of benzyloxycarbonylglycine and benzyloxycarbonylcitrulline were good substrates for the assay of proteinases, including chymotrypsin (EC 3.4.21.1) and **trypsin** (EC 3.4.21.4). The disadvantages of 4-methylumbelliferyl esters were also discussed.

=> d 110 2 ti fbib abs

L10 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS
TI **Trypsin** inhibitors. I. Synthesis of protected peptides related to sequence 1-10 of porcine pancreatic secretory **trypsin** inhibitor II (Kazal)
AN 1976:122285 CAPLUS
DN 84:122285
TI **Trypsin** inhibitors. I. Synthesis of protected peptides related to sequence 1-10 of porcine pancreatic secretory **trypsin** inhibitor II (Kazal)
AU Tomatis, Roberto; Guggi, Augusto; Benassi, Carlo A.; Salvadori, Severio; Rocchi, Raniero
CS Ist. Chim. Farm. Tossicol., Univ. Ferrara, Ferrara, Italy
SO International Journal of Peptide & Protein Research (1976), 8(1), 65-77
CODEN: IJPPC3; ISSN: 0367-8377
DT Journal
LA English
AB Thr-Cys(CH₂NHAc)-Thr-Ser-Glu(OCMe₃)-Val-Ser-NHNHCO₂CMe₃ was acylated by the azide method with either PhCH₂O₂C-Glu(OCMe₃)-Ala-NHNH₂ or PhCH₂O₂C-Arg(NO₂)-Glu(OCMe₃)-Ala-NHNH₂ to give the protected peptides corresponding to positions 2-10 and 1-10 of the proposed primary structure of porcine pancreatic secretory **trypsin** inhibitor II. The stereochem. homogeneity of the peptides was detd. after deblocking with liq. HF by digestion with aminopeptidase M followed by quant. amino acid anal.

=> d 110 1-2 it

L10 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS
IT Michaelis constant (of proteinases)
IT 9001-01-8 9001-73-4 9001-90-5 9001-92-7 9002-04-4 9002-07-7 9004-07-3
RL: BIOL (Biological study) (methylumbelliferyl esters as fluorogenic substrates for, prepn. of)
IT 85563-23-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (prepn. and reaction with amino acid derivs.)
IT 37006-72-7P 85563-16-2P
RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. and use as proteinase fluorogenic substrate)

IT 42800-48-6P 85563-17-3P **85563-18-4P** 85563-19-5P
 85563-20-8P 85563-21-9P **85563-22-0P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)

IT 90-33-5 135-19-3, reactions 79347-46-9
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, with amino acid derivs.)

IT 1885-14-9
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, with methylumbelliferone)

IT 495-69-2 1138-80-3 6692-89-3 10334-95-9
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, with naphthyl and methylumbelliferyl derivs.)

L10 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS

IT **Trypsin** inhibitor (pig pancreas secretory, II), peptide
 fragments
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)

IT 870-46-2 1115-59-9 1149-26-4 2304-98-5 2488-25-7 3496-11-5
 4666-16-4 **5165-16-2** 28798-28-9 35418-25-8 52615-95-9
 58651-91-5 58685-01-1
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (peptide coupling reactions of)

IT 6234-04-4P 58651-94-8P 58664-10-1P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (prepn. and peptide coupling reactions of)

IT 10081-75-1P 52615-94-8P 55324-35-1P 58651-88-0P 58651-89-1P
 58651-90-4P 58651-92-6P 58651-93-7P 58651-95-9P 58651-96-0P
 58682-43-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)

IT 1145-80-8
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, with hydrazines)

IT 302-01-2, reactions
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (with peptides)

=> 85563-18-4P

L11 1 85563-18-4P

=> 85563-18-4

REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...
 Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

L13 1 L12

=> display hitstr

ENTER (L13), L# OR ?:l13

ENTER ANSWER NUMBER OR RANGE (1):1

L13 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS

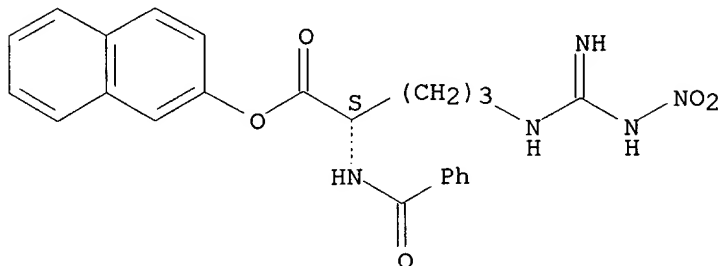
IT **85563-18-4P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 85563-18-4 CAPLUS

CN L-Ornithine, N2-benzoyl-N5-[imino(nitroamino)methyl]-, 2-naphthalenyl
ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



=> 85563-22-0

REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

L15 1 L14

=> display hitstr

ENTER (L15), L# OR ?:115

ENTER ANSWER NUMBER OR RANGE (1):1

L15 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS

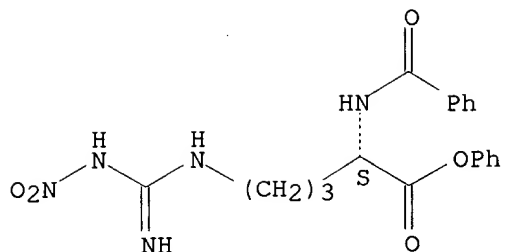
IT **85563-22-0P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 85563-22-0 CAPLUS

CN L-Ornithine, N2-benzoyl-N5-[imino(nitroamino)methyl]-, phenyl ester (9CI)
(CA INDEX NAME)

Absolute stereochemistry.



=> 5165-16-2

REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

L17 20 L16

=> display hitstr

ENTER (L17), L# OR ?:117

ENTER ANSWER NUMBER OR RANGE (1):1-5

L17 ANSWER 1 OF 20 CAPLUS COPYRIGHT 2003 ACS

IT **5165-16-2**

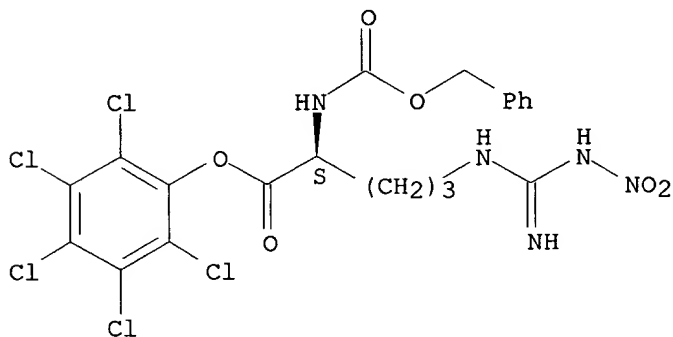
RL: RCT (Reactant); RACT (Reactant or reagent)

(coupling of, with aminoanthraquinone deriv., in prepn. of neoplasm inhibitor)

RN 5165-16-2 CAPLUS

CN L-Ornithine, N5-[imino(nitroamino)methyl]-N2-[(phenylmethoxy)carbonyl]-, pentachlorophenyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

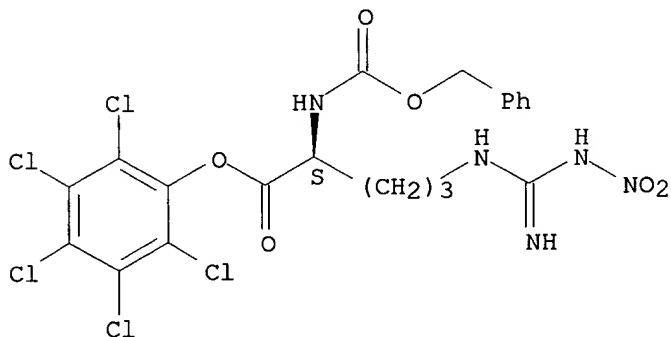


L17 ANSWER 2 OF 20 CAPLUS COPYRIGHT 2003 ACS

IT **5165-16-2**

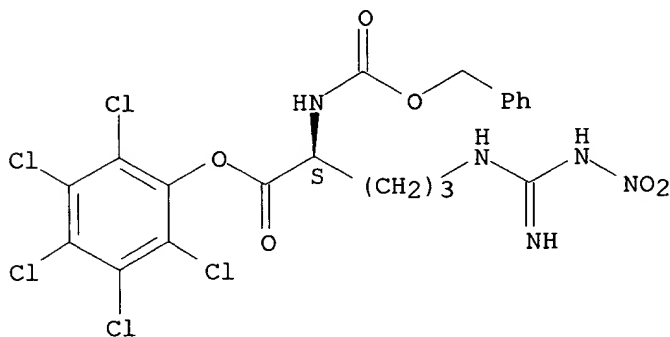
RL: RCT (Reactant); RACT (Reactant or reagent)
 (condensation of, with aminohydroxyanthraquinone)
 RN 5165-16-2 CAPLUS
 CN L-Ornithine, N5-[imino(nitroamino)methyl]-N2-[(phenylmethoxy)carbonyl]-,
 pentachlorophenyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



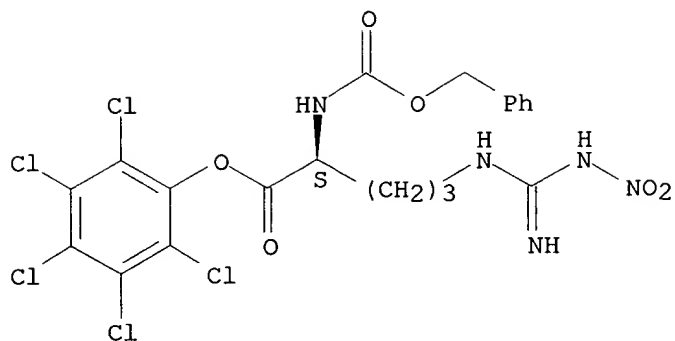
L17 ANSWER 3 OF 20 CAPLUS COPYRIGHT 2003 ACS
 IT **5165-16-2**
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, with proline deriv.)
 RN 5165-16-2 CAPLUS
 CN L-Ornithine, N5-[imino(nitroamino)methyl]-N2-[(phenylmethoxy)carbonyl]-,
 pentachlorophenyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L17 ANSWER 4 OF 20 CAPLUS COPYRIGHT 2003 ACS
 IT **5165-16-2**
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (peptide coupling of, with proline deriv.)
 RN 5165-16-2 CAPLUS
 CN L-Ornithine, N5-[imino(nitroamino)methyl]-N2-[(phenylmethoxy)carbonyl]-,
 pentachlorophenyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L17 ANSWER 5 OF 20 CAPLUS COPYRIGHT 2003 ACS

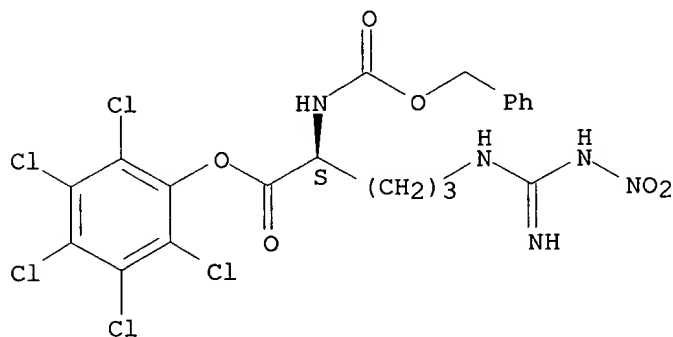
IT **5165-16-2P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(prepn. and peptide coupling of)

RN 5165-16-2 CAPLUS

CN L-Ornithine, N5-[imino(nitroamino)methyl]-N2-[(phenylmethoxy)carbonyl]-,
pentachlorophenyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



=> logoff hold

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
13.16	188.60

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
0.00	-1.30

CA SUBSCRIBER PRICE

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 07:07:52 ON 28 APR 2003

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Welcome to STN International! Enter x:x

LOGINID:sssptal623paz

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 08:00:15 ON 28 APR 2003
FILE 'CAPLUS' ENTERED AT 08:00:15 ON 28 APR 2003
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COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	13.58	189.02
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-1.30

=> d his

(FILE 'HOME' ENTERED AT 06:51:39 ON 28 APR 2003)

FILE 'REGISTRY' ENTERED AT 06:51:51 ON 28 APR 2003

L1 STRUCTURE UPLOADED
L2 50 SEARCH L1 SSS SAM
L3 STRUCTURE UPLOADED
L4 50 SEARCH L3 SSS SAM
L5 STRUCTURE UPLOADED
L6 2 SEARCH L5 SSS SAM
L7 48 SEARCH L5 SSS FULL

FILE 'CAPLUS' ENTERED AT 07:01:50 ON 28 APR 2003

L8 94 L7
L9 63775 TRYPSIN
L10 2 L8 AND L9
L11 1 85563-18-4P
S 85563-18-4/REG#

FILE 'REGISTRY' ENTERED AT 07:03:49 ON 28 APR 2003

L12 1 S 85563-18-4/RN

FILE 'CAPLUS' ENTERED AT 07:03:49 ON 28 APR 2003

L13 1 S L12
S 85563-22-0/REG#

FILE 'REGISTRY' ENTERED AT 07:05:32 ON 28 APR 2003

L14 1 S 85563-22-0/RN

FILE 'CAPLUS' ENTERED AT 07:05:32 ON 28 APR 2003

L15 1 S L14
S 5165-16-2/REG#

FILE 'REGISTRY' ENTERED AT 07:06:24 ON 28 APR 2003

L16 1 S 5165-16-2/RN

FILE 'CAPLUS' ENTERED AT 07:06:24 ON 28 APR 2003

L17 20 S L16

=> save temp l8 trypsinh/a
ANSWER SET L8 HAS BEEN SAVED AS 'TRYPSINH/A'

=> save temp all restrsrch/l
L# LIST L1-L17 HAS BEEN SAVED AS 'RESTRSRCH/L'

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	14.41	189.85
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-1.30

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 08:01:43 ON 28 APR 2003

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LOGINID:sssptal623paz

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS 4 Aug 08 PHARMAMarketLetter(PHARMAML) - new on STN
NEWS 5 Aug 19 Aquatic Toxicity Information Retrieval (AQUIRE)
now available on STN
NEWS 6 Aug 26 Sequence searching in REGISTRY enhanced
NEWS 7 Sep 03 JAPIO has been reloaded and enhanced
NEWS 8 Sep 16 Experimental properties added to the REGISTRY file
NEWS 9 Sep 16 CA Section Thesaurus available in CAPLUS and CA
NEWS 10 Oct 01 CASREACT Enriched with Reactions from 1907 to 1985
NEWS 11 Oct 24 BEILSTEIN adds new search fields
NEWS 12 Oct 24 Nutraceuticals International (NUTRACEUT) now available on
STN
NEWS 13 Nov 18 DKILIT has been renamed APOLLIT
NEWS 14 Nov 25 More calculated properties added to REGISTRY
NEWS 15 Dec 04 CSA files on STN
NEWS 16 Dec 17 PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS 17 Dec 17 TOXCENTER enhanced with additional content
NEWS 18 Dec 17 Adis Clinical Trials Insight now available on STN
NEWS 19 Jan 29 Simultaneous left and right truncation added to COMPENDEX,
ENERGY, INSPEC
NEWS 20 Feb 13 CANCERLIT is no longer being updated
NEWS 21 Feb 24 METADEX enhancements
NEWS 22 Feb 24 PCTGEN now available on STN
NEWS 23 Feb 24 TEMA now available on STN

NEWS 24 Feb 26 NTIS now allows simultaneous left and right truncation
 NEWS 25 Feb 26 PCTFULL now contains images
 NEWS 26 Mar 04 SDI PACKAGE for monthly delivery of multifile SDI results
 NEWS 27 Mar 19 APOLLIT offering free connect time in April 2003
 NEWS 28 Mar 20 EVENTLINE will be removed from STN
 NEWS 29 Mar 24 PATDPAFULL now available on STN
 NEWS 30 Mar 24 Additional information for trade-named substances without
 structures available in REGISTRY
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 NEWS 32 Apr 14 MEDLINE Reload
 NEWS 33 Apr 17 Polymer searching in REGISTRY enhanced
 NEWS 34 Apr 21 Indexing from 1947 to 1956 being added to records in
 CA/CAPLUS
 NEWS 35 Apr 21 New current-awareness alert (SDI) frequency in
 WPIDS/WPINDEX/WPIX

 NEWS EXPRESS April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT
 MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
 AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003
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 NEWS INTER General Internet Information
 NEWS LOGIN Welcome Banner and News Items
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FILE 'HOME' ENTERED AT 09:58:10 ON 28 APR 2003

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 09:58:43 ON 28 APR 2003

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 25 APR 2003 HIGHEST RN 505904-68-7
 DICTIONARY FILE UPDATES: 25 APR 2003 HIGHEST RN 505904-68-7

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=>

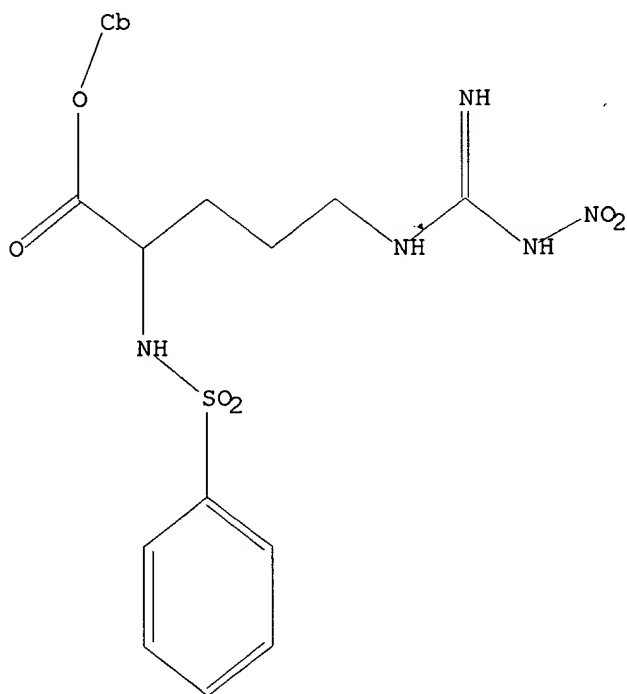
Uploading 09844816 search core nitro aryl sulfonamide.str

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> search l1 sss sam

SAMPLE SEARCH INITIATED 09:59:18 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 21 TO ITERATE

100.0% PROCESSED 21 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 146 TO 694

PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> search l1 sss full

FULL SEARCH INITIATED 09:59:31 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 337 TO ITERATE

100.0% PROCESSED 337 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

L3 0 SEA SSS FUL L1

=>

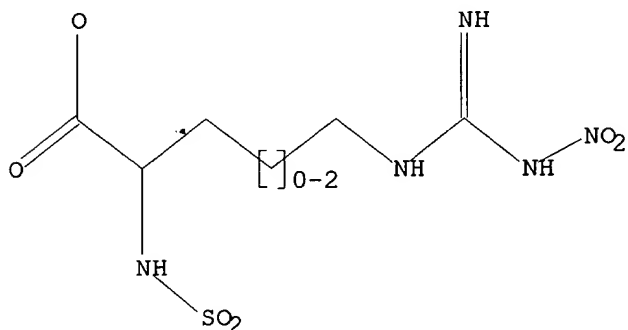
Uploading 09844816 search core nitro aryl sulfonamide broder.str

L4 STRUCTURE UPLOADED

=> d l4

L4 HAS NO ANSWERS

L4 STR



Structure attributes must be viewed using STN Express query preparation.

=> search l4 sss sam

SAMPLE SEARCH INITIATED 10:03:01 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 21 TO ITERATE

100.0% PROCESSED 21 ITERATIONS

2 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 146 TO 694

PROJECTED ANSWERS: 2 TO 124

L5 2 SEA SSS SAM L4

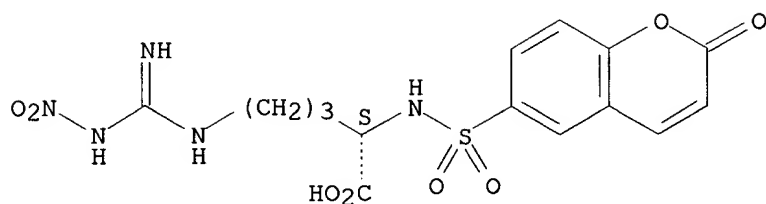
=> d scan

L5 2 ANSWERS REGISTRY COPYRIGHT 2003 ACS

IN L-Ornithine, N5-[imino(nitroamino)methyl]-N2-[(2-oxo-2H-1-benzopyran-6-yl)sulfonyl]-, monohydrofluoride (9CI)

MF C15 H17 N5 O8 S . F H

Absolute stereochemistry.



● HF

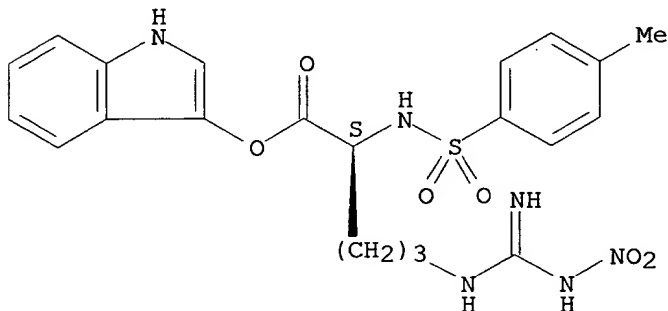
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L5 2 ANSWERS REGISTRY COPYRIGHT 2003 ACS

IN L-Ornithine, N5-[imino(nitroamino)methyl]-N2-[(4-methylphenyl)sulfonyl]-, 1H-indol-3-yl ester (9CI)

MF C21 H24 N6 O6 S

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> search l4 sss full

FULL SEARCH INITIATED 10:04:17 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 342 TO ITERATE

100.0% PROCESSED 342 ITERATIONS

SEARCH TIME: 00.00.01

13 ANSWERS

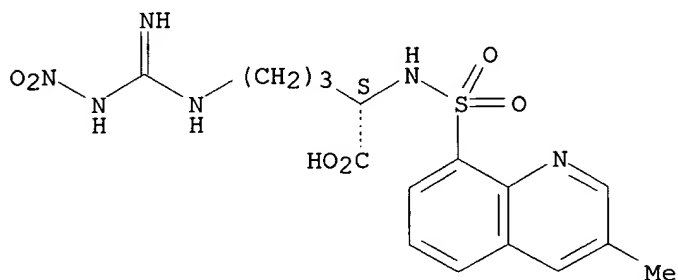
L6

13 SEA SSS FUL L4

=> d scan

L6 13 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N5-[imino(nitroamino)methyl]-N2-[(3-methyl-8-quinolinyl)sulfonyl]- (9CI)
MF C16 H20 N6 O6 S

Absolute stereochemistry. Rotation (+).

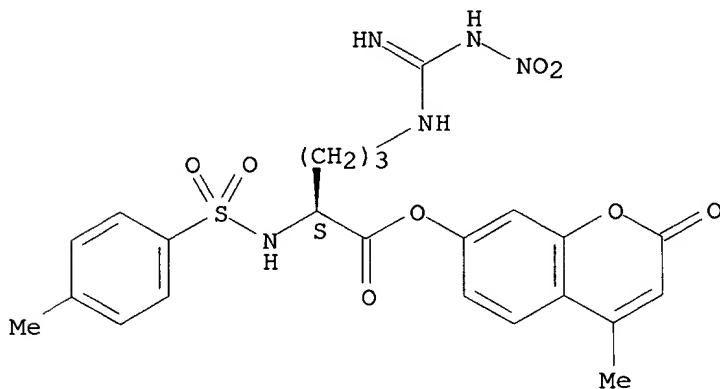


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):14

L6 13 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N5-[imino(nitroamino)methyl]-N2-[(4-methylphenyl)sulfonyl]-, 4-methyl-2-oxo-2H-1-benzopyran-7-yl ester (9CI)
MF C23 H25 N5 O8 S

Absolute stereochemistry.

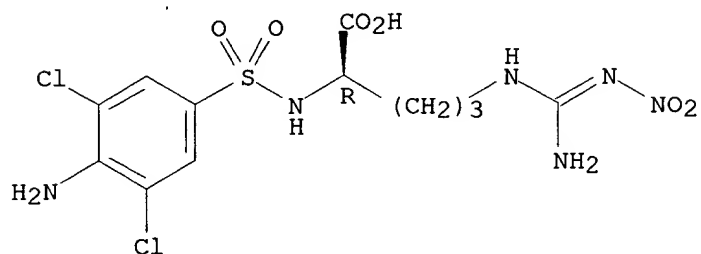


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L6 13 ANSWERS REGISTRY COPYRIGHT 2003 ACS

IN D-Ornithine, N2-[(4-amino-3,5-dichlorophenyl)sulfonyl]-N5-
 [imino(nitroamino)methyl]- (9CI)
 MF C12 H16 Cl2 N6 O6 S

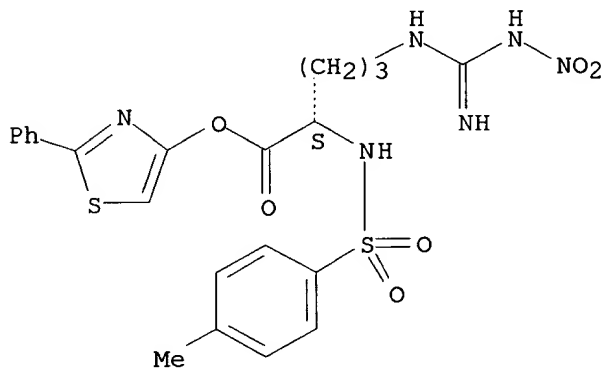
Absolute stereochemistry.
 Double bond geometry unknown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L6 13 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN L-Ornithine, N5-[imino(nitroamino)methyl]-N2-[(4-methylphenyl)sulfonyl]-,
 2-phenyl-4-thiazolyl ester (9CI)
 MF C22 H24 N6 O6 S2

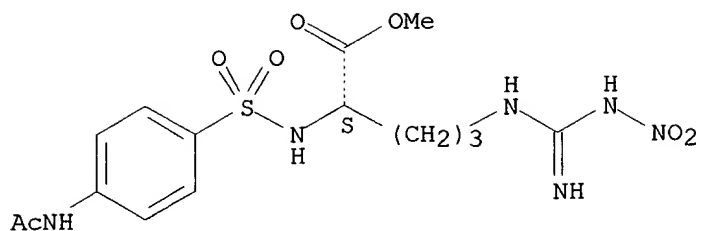
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L6 13 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN L-Ornithine, N2-[[4-(acetamino)phenyl)sulfonyl]-N5-
 [imino(nitroamino)methyl]-, methyl ester (9CI)
 MF C15 H22 N6 O7 S

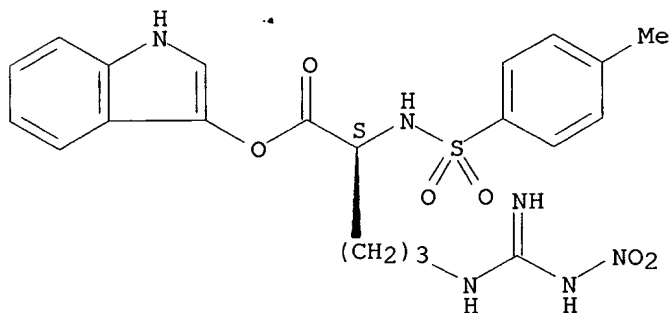
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

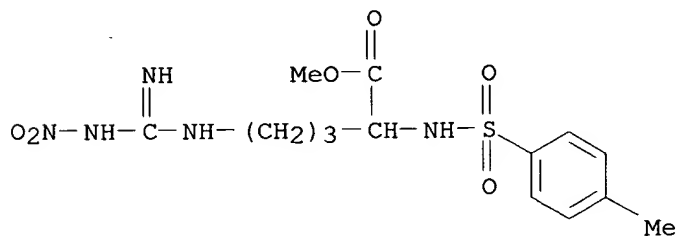
L6 13 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN L-Ornithine, N5-[imino(nitroamino)methyl]-N2-[(4-methylphenyl)sulfonyl]-,
 1H-indol-3-yl ester (9CI)
 MF C21 H24 N6 O6 S

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

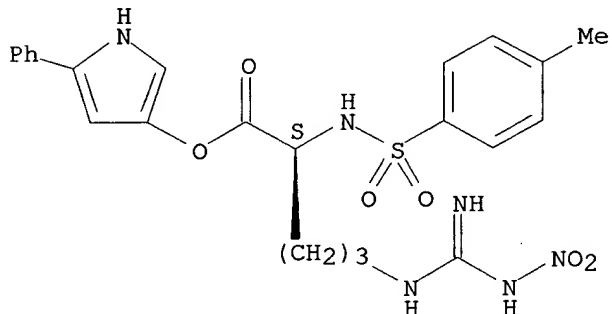
L6 13 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN Ornithine, N5-(nitroamidino)-N2-(p-tolylsulfonyl)-, methyl ester (7CI)
 MF C14 H21 N5 O6 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L6 13 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N5-[imino(nitroamino)methyl]-N2-[(4-methylphenyl)sulfonyl]-,
5-phenyl-1H-pyrrol-3-yl ester (9CI)
MF C23 H26 N6 O6 S

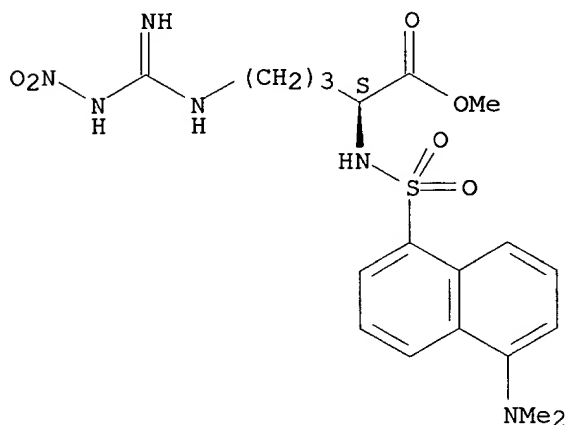
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L6 13 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N2-[[5-(dimethylamino)-1-naphthalenyl]sulfonyl]-N5-
[imino(nitroamino)methyl]-, methyl ester (9CI)
MF C19 H26 N6 O6 S

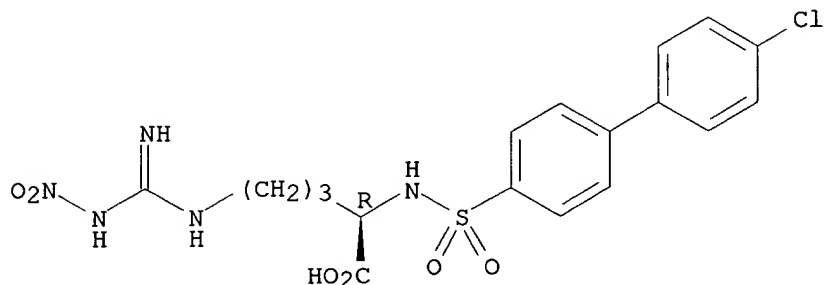
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L6 13 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN D-Ornithine, N2-[(4'-chloro[1,1'-biphenyl]-4-yl)sulfonyl]-N5-
 [imino(nitroamino)methyl]- (9CI)
 MF C18 H20 Cl N5 O6 S

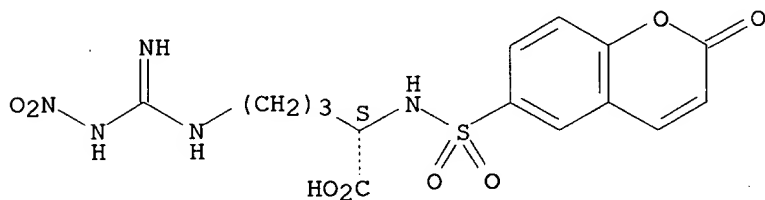
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L6 13 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN L-Ornithine, N5-[imino(nitroamino)methyl]-N2-[(2-oxo-2H-1-benzopyran-6-
 yl)sulfonyl]-, monohydrofluoride (9CI)
 MF C15 H17 N5 O8 S . F H

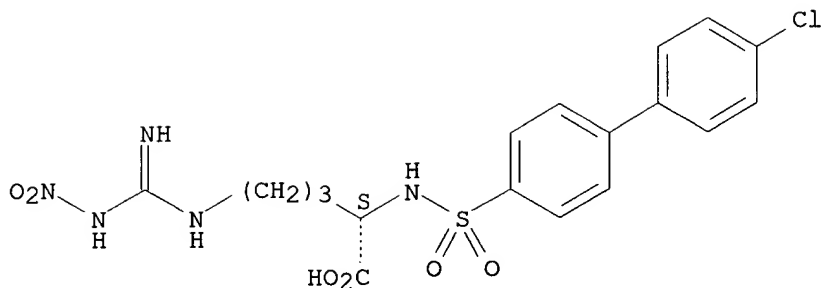
Absolute stereochemistry.



● HF

L6 13 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN L-Ornithine, N2-[(4'-chloro[1,1'-biphenyl]-4-yl)sulfonyl]-N5-
 [imino(nitroamino)methyl]- (9CI)
 MF C18 H20 Cl N5 O6 S

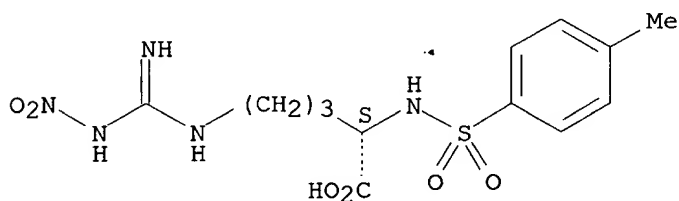
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L6 13 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN L-Ornithine, N5-[imino(nitroamino)methyl]-N2-[(4-methylphenyl)sulfonyl]-
 (9CI)
 MF C13 H19 N5 O6 S

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> file caplus

COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
299.50	299.71

FILE 'CAPLUS' ENTERED AT 10:04:39 ON 28 APR 2003

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FILE COVERS 1907 - 28 Apr 2003 VOL 138 ISS 18

FILE LAST UPDATED: 27 Apr 2003 (20030427/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> l6

L7 13 L6

=> trrypsin?

L8 1 TRRYPSIN?

=> trypsin?

L9 67042 TRYPSIN?

=> l7 and l8

L10 0 L7 AND L8

=> d l7 1-13 ti

L7 ANSWER 1 OF 13 CAPLUS COPYRIGHT 2003 ACS

TI Preparation of arginine derivatives for assay of trypsin urinary inhibitor

L7 ANSWER 2 OF 13 CAPLUS COPYRIGHT 2003 ACS

TI Urinary trypsin inhibitor assay containing a polycarboxylic chelating agent

L7 ANSWER 3 OF 13 CAPLUS COPYRIGHT 2003 ACS

TI Preparation and use of sulfonyldiaminocarboxylic acids as matrix-metalloproteinase inhibitors

L7 ANSWER 4 OF 13 CAPLUS COPYRIGHT 2003 ACS

TI Method for the preparation of N2-arylsulfonyl-NG-nitro-L-arginines and their piperidinamide derivatives

L7 ANSWER 5 OF 13 CAPLUS COPYRIGHT 2003 ACS

TI Selective cleavage of protecting groups in arginine

L7 ANSWER 6 OF 13 CAPLUS COPYRIGHT 2003 ACS

TI Preparation of amino acid derivatives as neuropeptide Y antagonists.

L7 ANSWER 7 OF 13 CAPLUS COPYRIGHT 2003 ACS

TI Amino acids and peptides. V. Synthesis of amino acid derivatives containing a sulfonamide bond

L7 ANSWER 8 OF 13 CAPLUS COPYRIGHT 2003 ACS

TI Tumor cell proteinase visualization and quantification using a fluorescent transition-state analog probe

L7 ANSWER 9 OF 13 CAPLUS COPYRIGHT 2003 ACS

TI A sensitive determination of trypsin and its inhibitor with a new substrate, tosyl-L-arginyl-L-phenylalanine

L7 ANSWER 10 OF 13 CAPLUS COPYRIGHT 2003 ACS

TI N2-Coumarinsulfonylarginineamides

L7 ANSWER 11 OF 13 CAPLUS COPYRIGHT 2003 ACS

TI N.alpha.-Tosylarginine derivatives

L7 ANSWER 12 OF 13 CAPLUS COPYRIGHT 2003 ACS

TI Synthesis of TACK [N.alpha.-tosyl-L-arginine chloromethyl ketone], a chloromethyl ketone derivative of arginine

L7 ANSWER 13 OF 13 CAPLUS COPYRIGHT 2003 ACS

TI Esters of N.alpha.-arylsulfonyl amino acids

=> d 17 1-13 ti fbib abs

L7 ANSWER 1 OF 13 CAPLUS COPYRIGHT 2003 ACS

TI Preparation of arginine derivatives for assay of trypsin urinary inhibitor

AN 2001:864746 CAPLUS

DN 135:371994

TI Preparation of arginine derivatives for assay of trypsin urinary inhibitor

IN Corey, Paul F.; Felman, Steven W.; Rehm, Gary E.; Pugia, Michael J.

PA Bayer Corporation, USA

SO Eur. Pat. Appl., 20 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1157984	A2	20011128	EP 2001-110138	20010504
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	CA 2334827	AA	20011115	US 2000-203999PP	20000515
				CA 2001-2334827	20010209
				US 2000-203999PP	20000515
	NZ 509863	A	20020927	NZ 2001-509863	20010212
				US 2000-203999PP	20000515
	US 2002004219	A1	20020110	US 2001-844816	20010430
				US 2000-203999PP	20000515
	NO 2001002307	A	20011116	NO 2001-2307	20010510
				US 2000-203999PP	20000515
	JP 2002069055	A2	20020308	JP 2001-139608	20010510
				US 2000-203999PP	20000515

OS MARPAT 135:371994

AB Arginine derivs. R1-L-Arg(R2)-OR3 (R1 and R2 are protective groups, R3 is aryl) were prepd. as trypsin substrates in which trypsin cleaves the O-C single bond to liberate R3-OH. A diagnostic device comprising the arginine derivs. is used to detect levels of urinary trypsin inhibitor (UTI) in a biol. sample. Thus, 3-(N.alpha.-tosyl-N.gamma.-nitro-L-arginyloxy)-5-phenylpyrrole was prepd. by esterification reaction and shown to be active with trypsin enzyme, allowing a change in decode signal

of more than 50 % when trypsin was substantially inhibited by the trypsin inhibitor.

L7 ANSWER 2 OF 13 CAPLUS COPYRIGHT 2003 ACS

TI Urinary trypsin inhibitor assay containing a polycarboxylic chelating

agent
 AN 2001:850805 CAPLUS
 DN 135:368535
 TI Urinary trypsin inhibitor assay containing a polycarboxylic chelating agent
 IN Rehm, Gary B.; Pugia, Michael J.; Corey, Paul F.
 PA Bayer Corporation, USA
 SO Eur. Pat. Appl., 9 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1156121	A2	20011121	EP 2001-110137	20010504
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	CA 2334321	AA	20011115	US 2000-204032PP	20000515
				CA 2001-2334321	20010206
				US 2000-204032PP	20000515
	AU 2001026506	A5	20020725	AU 2001-26506	20010313
				US 2000-204032PP	20000515
	US 2001055816	A1	20011227	US 2001-844815	20010430
				US 2000-204032PP	20000515
	NO 2001002262	A	20011116	NO 2001-2262	20010508
				US 2000-204032PP	20000515
	JP 2002014096	A2	20020118	JP 2001-142654	20010514
				US 2000-204032PP	20000515

AB Disclosed is an assay for detg. the presence and concn. of trypsin inhibitor in urine samples. The assay reagents, which may be used either in the liq. or dry states, include trypsin, a trypsin substrate and a polycarboxylic chelating agent. The inclusion of the chelating agent in the assay has been found to reduce variation in the assay results.

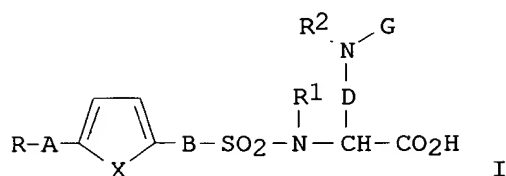
L7 ANSWER 3 OF 13 CAPLUS COPYRIGHT 2003 ACS
 TI Preparation and use of sulfonyldiaminocarboxylic acids as matrix-metalloproteinase inhibitors
 AN 1998:742172 CAPLUS
 DN 129:331057
 TI Preparation and use of sulfonyldiaminocarboxylic acids as matrix-metalloproteinase inhibitors
 IN Thorwart, Werner; Schwab, Wilfried; Schudok, Manfred; Haase, Burkhard; Neises, Bernhard; Billen, Gunter
 PA Hoechst Aktiengesellschaft, Germany
 SO Eur. Pat. Appl., 77 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 877019	A1	19981111	EP 1998-108040	19980502
	EP 877019	B1	20011212		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
				DE 1997-19719585A	19970509
				DE 1997-19719428A	19970512
	DE 19719585	A1	19981112	DE 1997-19719585	19970509
	DE 19719428	A1	19981119	DE 1997-19719428	19970512

AT 210639	E	20011215
ES 2165640	T3	20020316
CA 2237052	AA	19981109
AU 9864824	A1	19981112
AU 736700	B2	20010802
CN 1205328	A	19990120
CN 1206001	A	19990127
BR 9801604	A	19990608
JP 11228529	A2	19990824
US 6159995	A	20001212
US 6355673	B1	20020312

AT 1998-108040	19980502
DE 1997-19719585A	19970509
DE 1997-19719428A	19970512
ES 1998-108040	19980502
DE 1997-19719585A	19970509
DE 1997-19719428A	19970512
CA 1998-2237052	19980507
DE 1997-19719585A	19970509
DE 1997-19719428A	19970512
AU 1998-64824	19980508
DE 1997-19719585A	19970509
DE 1997-19719428A	19970512
CN 1998-115265	19980508
DE 1997-19719585A	19970509
CN 1998-109840	19980508
DE 1997-19719585A	19970509
BR 1998-1604	19980508
DE 1997-19719585A	19970509
DE 1997-19719428A	19970512
JP 1998-162707	19980508
DE 1997-19719585A	19970509
DE 1997-19719428A	19970512
US 1998-74587	19980508
DE 1997-19719585A	19970509
DE 1997-19719428A	19970512
US 2000-690475	20001018
DE 1997-19719585A	19970509
DE 1997-19719428A	19970512
US 1998-74587	A319980508

OS MARPAT 129:331057
GI



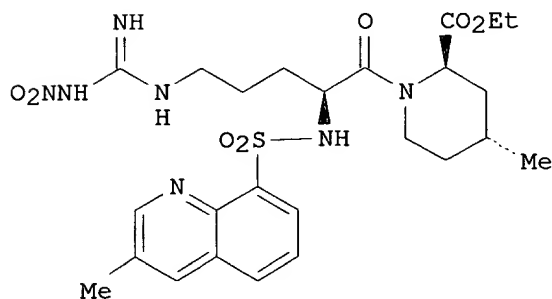
AB Title compds. [(I); R = (substituted)phenyl or heteroarom. group; R1 = H, (substituted)alkyl, 2-pyridinyl-methyl; R2, G independently = H, (substituted)alkyl, alkenyl, (substituted)phenyl; R2, G together = (substituted) ring; A = bond, O, CY:CY; Y = H, bond; B = (CH2)1-3, O(CH2)1-5, CH:CH, bond; D = (CH2)1-6, where one C may be replaced by NH, O, or S; X = CH:CH, O, S], useful as matrix-metalloproteinase inhibitors, were prepd. and tested. Thus, (R)-citrulline was reacted with Cl-4-C6H4-SO2Cl to give I [R = Cl-4-C6H4; R1,R2 = H; A,B = bond; D = (CH2)3; G = CONH2 (II)], in 54% yield. In in vitro fluorescence extinction tests with stromelysin and neutrophilic collagenase, II had IC50 of 50x10⁻⁹ Mol/l and 7x10⁻⁹ Mol/l resp.

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 4 OF 13 CAPLUS COPYRIGHT 2003 ACS
 TI Method for the preparation of N2-arylsulfonyl-NG-nitro-L-arginines and their piperidinamide derivatives
 AN 1998:154789 CAPLUS
 DN 128:180664
 TI Method for the preparation of N2-arylsulfonyl-NG-nitro-L-arginines and their piperidinamide derivatives
 IN Kikumoto, Ryoji
 PA Mitsubishi Chemical Corp., Japan
 SO Eur. Pat. Appl., 10 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 823430	A1	19980211	EP 1997-113390	19970804
	EP 823430	B1	20011024		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	JP 10101649	A2	19980421	JP 1996-208087 A	19960807
				JP 1997-207508	19970801
				JP 1996-208087 A	19960807
	US 5925760	A	19990720	US 1997-904555	19970804
				JP 1996-208087 A	19960807
	AT 207482	E	20011115	AT 1997-113390	19970804
				JP 1996-208087 A	19960807
	ES 2166937	T3	20020501	ES 1997-113390	19970804
				JP 1996-208087 A	19960807

GI



II

AB ArSO₂-Arg(NO₂)-OH [Ar = quinolin-8yl, 3-alkylquinolin-8yl] was prepd. by the reaction of H-Arg(NO₂)-OH with 8-quinolinesulfonyl chloride or with 3-alkyl-8-quinolinesulfonyl chloride. For example, H-Arg(NO₂)-OH was reacted with 3-methyl-8-quinolinesulfonyl chloride in presence of 25% aq. NaOH and Na₂CO₃, and the product N2-(3-methyl-8-quinolinesulfonyl)-NG-nitro-L-arginine (I) was obtained after workup. Free acid I in THF was converted to the acid chloride with POCl₃, and then, reacted with Et (2R,4R)-4-methylpiperidine-2-carboxylate in THF in the presence of Et₃N to give the piperidinamide deriv. II in 78% yield. Piperidinamide deriv. II is a synthetic intermediate of argatroban.

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 5 OF 13 CAPLUS COPYRIGHT 2003 ACS
 TI Selective cleavage of protecting groups in arginine
 AN 1996:639325 CAPLUS
 DN 125:329321
 TI Selective cleavage of protecting groups in arginine
 AU Ferreira, P. M. T.; Maia, H. L. S.; Rodrigues, L. M.
 CS Departamento de Quimica, Universidade do Minho, Braga, P-4710, Port.
 SO Peptides 1994, Proceedings of the European Peptide Symposium, 23rd,
 Braga,
 Port., Sept. 4-10, 1994 (1995), Meeting Date 1994, 151-152. Editor(s):
 Maia, Hernani L. S. Publisher: ESCOM, Leiden, Neth.
 CODEN: 63MBAO
 DT Conference
 LA English
 AB A report from a symposium on the electrochem. properties of arginine
 derivs. R-Arg(NO₂)-OH [R = 4-O₂NC₆H₄CH₂O₂C [Z(NO₂)], tosyl] and selective
 electrochem. deprotection of Z(NO₂)-Arg(NO₂)-NHCH₂Ph to give either
 H-Arg(NO₂)-NHCH₂Ph or H-Arg-NHCH₂Ph.

L7 ANSWER 6 OF 13 CAPLUS COPYRIGHT 2003 ACS
 TI Preparation of amino acid derivatives as neuropeptide Y antagonists.
 AN 1995:662328 CAPLUS
 DN 123:83996
 TI Preparation of amino acid derivatives as neuropeptide Y antagonists.
 IN Rudolf, Klaus; Eberlein, Wolfgang; Engel, Wolfhard; Mihm, Gerhard; Doods,
 Henri; Wieland, Heike-Andrea; Willim, Klaus-Dieter; Krause, Juergen;
 Dollinger, Horst; et al.
 PA Dr. Karl Thomae GmbH, Germany
 SO PCT Int. Appl., 308 pp.
 CODEN: PIXXD2
 DT Patent
 LA German
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9417035	A1	19940804	WO 1994-EP109	19940118
UA	W: AU, BG, BY, CA, CN, CZ, FI, HU, JP, KR, NO, NZ, PL, RO, RU, SK,				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
				DE 1993-4301452A	19930120
				DE 1993-4326465A	19930806
	DE 4301452	A1	19940721	DE 1993-4301452	19930120
	DE 4326465	A1	19950209	DE 1993-4326465	19930806
				DE 1993-4301452A	19930120
	AU 9458841	A1	19940815	AU 1994-58841	19940118
	AU 683442	B2	19971113		
				DE 1993-4301452A	19930120
				DE 1993-4326465A	19930806
				WO 1994-EP109 W	19940118
	EP 680469	A1	19951108	EP 1994-905073	19940118
	EP 680469	B1	20000426		
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				DE 1993-4326465A	19930806
				WO 1994-EP109 W	19940118
	JP 08505862	T2	19960625	JP 1994-516636	19940118

AT 192142 E 20000515

FI 9503467 A 19950718

NO 9502869 A 19950919

PATENT FAMILY INFORMATION:

FAN 1994:701316

	PATENT NO.	KIND	DATE
PI	DE 4301452	A1	19940721
	DE 4326465	A1	19950209

CA 2153582 AA 19940804

WO 9417035 A1 19940804

UA W: AU, BG, BY, CA, CN, CZ, FI, HU, JP, KR, NO, NZ, PL, RO, RU, SK,

RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

AU 9458841 A1 19940815

AU 683442 B2 19971113

EP 680469 A1 19951108

EP 680469 B1 20000426

SE R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT,

JP 08505862 T2 19960625

HU 73770 A2 19960930

AT 192142 E 20000515

ES 2147230 T3 20000901

ZA 9400368 A 19950719

DE 1993-4301452A 19930120
DE 1993-4326465A 19930806
WO 1994-EP109 W 19940118
AT 1994-905073 19940118
DE 1993-4301452A 19930120
DE 1993-4326465A 19930806
WO 1994-EP109 W 19940118
FI 1995-3467 19950718
DE 1993-4301452A 19930120
DE 1993-4326465A 19930806
WO 1994-EP109 W 19940118
NO 1995-2869 19950719
DE 1993-4301452A 19930120
DE 1993-4326465A 19930806
WO 1994-EP109 W 19940118

APPLICATION NO.	DATE
DE 1993-4301452	19930120
DE 1993-4326465	19930806
DE 1993-4301452A	19930120
CA 1994-2153582	19940118
DE 1993-4301452A	19930120
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WO 1994-EP109	19940118

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AU 1994-58841 19940118

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WO 1994-EP109 W 19940118
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WO 1994-EP109 W 19940118
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ZA 1994-368 19940119
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US 5616620	A	19970401	US 1995-458093	19950601
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			DE 1993-4326465A	19930806
US 5807875	A	19980915	WO 1994-EP109 W	19940118
			US 1996-763504	19961211
			DE 1993-4301452A	19930120
			DE 1993-4326465A	19930806
			US 1994-184160 B3	19940121
			US 1995-458093 A3	19950601

OS MARPAT 123:83996

AB TZNR1CR2R3COY(CH₂)_nR [n = 0-5; R = H, OH, (substituted) Ph, naphthyl, aminophenyl, aminonaphthyl, hydroxyphenyl, hydroxynaphthyl, diphenylmethyl, heteroaryl, cycloalkyl, etc.; Y = O, NR₄; R₁, R₄ = H, alkyl, cycloalkyl, (substituted) Ph, PhCH₂; R₂ = substituted alkyl, Ph, PhCH₂; R₃ = H, alkyl, cycloalkyl; T = H, Ph, (substituted) heteroaryl, protecting group, etc.; Z = bond, CO, CH₂, SO, SO₂], were prepd. Thus, H-D-Arg(NO₂)-OH in THF was treated with aq. NaOH and then with Ph₂CHCOCl to give 85% amide. This in THF was treated with N-methylmorpholine, iso-Bu chloroformate, and 4-(aminomethyl)acetanilide under cooling to give 63%

(R)-N-[[4-(acetylamino)phenyl]methyl]-N⁵-[amino(nitroimino)methyl]-N²-(diphenylacetyl)ornithinamide. This was hydrogenated in aq. HOAc over Pd to give (R)-N-[[4-(acetylamino)phenyl]methyl]-N²-diphenylacetylargininamide acetate. Title compds. antagonized neuropeptide Y-induced effects on blood pressure in rats at 0.01-10 mg/kg.

L7 ANSWER 7 OF 13 CAPLUS COPYRIGHT 2003 ACS

TI Amino acids and peptides. V. Synthesis of amino acid derivatives containing a sulfonamide bond

AN 1985:523873 CAPLUS

DN 103:123873

TI Amino acids and peptides. V. Synthesis of amino acid derivatives containing a sulfonamide bond

AU Maeda, Mitsuko; Okada, Yutaka; Sogabe, Maki; Kawasaki, Koichi

CS Fac. Pharm. Sci., Kobe-Gakuin Univ., Kobe, 673, Japan

SO Chemical & Pharmaceutical Bulletin (1985), 33(5), 2137-41

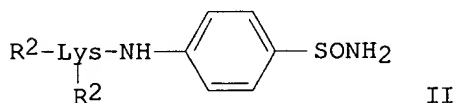
CODEN: CPBTAL; ISSN: 0009-2363

DT Journal

LA English

OS CASREACT 103:123873

GI



AB Sulfanilyl amino acids p-H₂NC₆H₄SO₂-X-OH.HCl (X = Ala, D-Ala, Pro, Asp) were prepd. by sulfonylating H-X₁-OMe.HCl [X₁ = Ala, D-Ala, Pro, Asp(OMe)] with p-AcNHC₆H₄SO₂Cl (AsulCl) and hydrolyzing the resulting Asul-X₁-OMe (I; X₁ = same) by 6N HCl. p-H₂NC₆H₄SO₂-Lys-OH.2HCl was prepd. via I [X₁ = Lys(R) [R = CO₂CH₂Ph (Z) or CO₂CMe₃ (Boc)]], whereas p-H₂NC₆H₄SO₂-Arg-OH.2HCl was prepd. from I [X₁ = Arg(NO₂)]. Sulfonyllysines Asul-Lys(R₁)-OH (R₁ = Z, Asul), R₂-Lys(Boc)-OH [R₂ = dansyl, tosyl (Tos), MeSO₂], and Tos-Lys(Tos)-OH were also prepd. Some of the sulfonyllysines exhibited fibrinolytic activity. Z-Lys(Z)-OH was condensed with p-H₂NC₆H₄SO₂NH₂ by DCC to give lysylsulfanilamide II (R₂ = Z), which was Z-deblocked by hydrogenolysis to give II (R₂ = H) (III). About 60% of III was hydrolyzed by trypsin in 24 h. A drug acylated with an amino acid may improve soly. in H₂O and act as a prodrug.

L7 ANSWER 8 OF 13 CAPLUS COPYRIGHT 2003 ACS
 TI Tumor cell proteinase visualization and quantification using a fluorescent transition-state analog probe
 AN 1984:205401 CAPLUS
 DN 100:205401
 TI Tumor cell proteinase visualization and quantification using a fluorescent transition-state analog probe
 AU Kozlowski, Karen A.; Wezeman, Frederick H.; Schultz, Richard M.
 CS Chicago Stritch Sch. Med., Loyola Univ., Maywood, IL, 60153, USA
 SO Proceedings of the National Academy of Sciences of the United States of America (1984), 81(4), 1135-9
 CODEN: PNASA6; ISSN: 0027-8424
 DT Journal
 LA English
 AB The fluorescent proteinase transition-state analog inhibitor, dansyl-L-argininal (DnsArgH), may be a selective probe of cysteine and serine proteinases in a fibrosarcoma tumor cell line (HSDM1C1). DnsArgH binds with high affinity to proteinases because of its transition-state analog properties, and on assocn. it gives a dramatically increased fluorescent yield. The DnsArgH binding is inhibited by the serine proteinase inhibitor, diisopropyl fluorophosphate, and by the cysteine proteinase inhibitor, p-chloromercuribenzoate. The fluorescence emission appears at its max. steady-state yield immediately on addn. of DnsArgH to the HSDM1C1 fibrosarcoma cells. The immediacy of the DnsArgH reaction supports the contention that DnsArgH binding may be to cell surface-assocd. proteinases. Quantification of the cell proteinase concn., by comparison of the fluorescence yield obtained from DnsArgH interactions with bovine trypsin and papain, indicates 10⁻¹⁵-10⁻¹⁶ mol/proteinase/HSDM1C1 cell. In fluorescence microscopy, DnsArgH fluorescence appears distributed throughout the fibrosarcoma cell without assocn. to organelles. DnsArgH fluorescence from normal fibroblast controls (IMR-90) was substantially lower than in the transformed fibrosarcoma cells, supporting a hypothesis that proteinases have a role in malignancy.

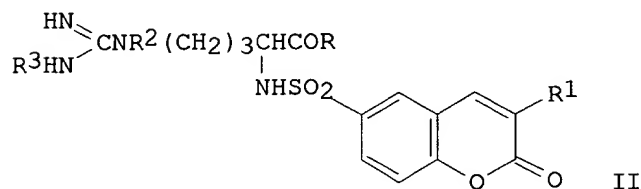
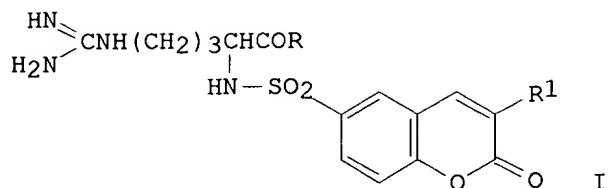
L7 ANSWER 9 OF 13 CAPLUS COPYRIGHT 2003 ACS
 TI A sensitive determination of trypsin and its inhibitor with a new substrate, tosyl-L-arginyl-L-phenylalanine

AN 1984:98776 CAPLUS
 DN 100:98776
 TI A sensitive determination of trypsin and its inhibitor with a new
 substrate, tosyl-L-arginyl-L-phenylalanine
 AU Suzuki, Tateo; Takahata, Jutaroh; Miyauchi, Kohei; Meguro, Hiroshi
 CS Fac. Agric., Tohoku Univ., Sendai, 980, Japan
 SO Agricultural and Biological Chemistry (1983), 47(12), 2913-14
 CODEN: ABCHA6; ISSN: 0002-1369
 DT Journal
 LA English
 AB Tosyl-L-arginyl-L-phenylalanine (I) was synthesized from
 N.alpha.-tosyl-NG-nitro-L-arginine and L-phenylalanine benzyl ester
 p-toluenesulfonate. A sensitive method for detn. of trypsin with I as
 substrate was devised in which the phenylalanine released was detd.
 fluorometrically by fluoescamine. The incubation of enzyme with I soln.
 at pH 7.8 was done at 37.degree. for 20 min, after which fluoescamine
 was added and the emission wavelength at 475 nm was detd. (excitation
 wavelength 390 nm). An assay for trypsin inhibitors was developed with I
 as substrate and trypsin producing a known amt. of fluorescence increase.
 The lower limit of detection of trypsin by this method was 0.1 .mu.g, and
 of trypsin inhibitor, 0.05 .mu.g. Thus, the method is 20-fold more
 sensitive than the conventional one using a p-nitroanilide substrate.
 The relative std. deviation was 17% in the present method and 11% in the std.
 one.

L7 ANSWER 10 OF 13 CAPLUS COPYRIGHT 2003 ACS
 TI N2-Coumarinsulfonylarginineamides
 AN 1977:485236 CAPLUS
 DN 87:85236
 TI N2-Coumarinsulfonylarginineamides
 IN Okamoto, Shosuke; Kikumoto, Ryoji; Tamao, Yoshikuni; Okubo, Kazuo;
 Tezuka,
 Toru; Tonomura, Shinji; Hijikata, Akiko
 PA Mitsubishi Chemical Industries Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JKXXAF

DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	JP 52014769	A2	19770203	JP 1975-89406	19750722
	JP 60047266	B4	19851021		
				JP 1975-89406	19750722
GI					



AB Eleven N2-coumarinsulfonylarginineamides I (R = 4-substituted piperidino, morpholino, BuMeN, MeO2CCH2CH2NH, BuNH, PhCH2NH, 4-substituted piperazino;

R1 = H, Et) and their acid salts were prepd. by removal of the guanidine-protecting groups from NG-substituted-coumarinsulfonylarginineamides II (R2, R3 = H, guanidine-protecting groups; both R2 and R3 are not H). I had antithrombin activity. Thus, 0.64 g anisole and 3 mL HF were added to 1.08 g II (R =

4-ethylpiperidino,

R1 = R2 = H, R3 = NO2) with Dry Ice-Me2CO cooling and the mixt. was stirred

30 min with ice cooling to give 78% I.HF (R = 4-ethylpiperidino, R1 = H).

L7 ANSWER 11 OF 13 CAPLUS COPYRIGHT 2003 ACS

TI N.alpha.-Tosylarginine derivatives

AN 1974:121322 CAPLUS

DN 80:121322

TI N.alpha.-Tosylarginine derivatives

IN Inoue, Ken

PA Shionogi and Co., Ltd.

SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	JP 48081832	A2	19731101	JP 1972-14417	19720211
				JP 1972-14417	19720211

AB The arginines 4-MeC6H4SO2NHCH(COR)(CH2)3NHC(:NR1)NH2 I (R = OH, R1 = NO2) were halogenated to give I (R = halo), which were treated with CH2N2 to give I (R = CHN2). These were halogenated with HX to give I (R = CH2X), which were treated with HF to give I (R = CH2X, R1 = H). I are active center labeling agents for trypsin-like enzymes. Thus, 5.5 g NG-nitro-L-arginine in 2N NaOH was treated with Na2CO3, acetone, and 4-MeC6H4SO2Cl to give 8.16 g I (R = OH, R1 = NO2), which (1.87 g) in THF was chlorinated with PCl5 at -10 to 0.degree. to give 1.6 g I (R = Cl). 1.01 g I (R = Cl) in THF was treated with CH2N2 to give 0.88 g I (R = CHN2), which (0.25 g) was dissolved in N HCl-AcOH to give 0.18 g I (R = CH2Cl). Treatment of I (R = CH2Cl) with anisole and HF gave 0.18 g I (R

$$=$$

CH2Cl, R1 = H) as HCl salt.

L7 ANSWER 12 OF 13 CAPLUS COPYRIGHT 2003 ACS
TI Synthesis of TACK [N.alpha.-tosyl-L-arginine chloromethyl ketone], a
chloromethyl ketone derivative of arginine
AN 1974:96328 CAPLUS
DN 80:96328
TI Synthesis of TACK [N.alpha.-tosyl-L-arginine chloromethyl ketone], a
chloromethyl ketone derivative of arginine
AU Inouye, Ken; Sasaki, Atsushi; Yoshida, Nobuo
CS Shionogi Res. Lab., Shionogi and Co., Ltd., Osaka, Japan
SO Bulletin of the Chemical Society of Japan (1974), 47(1), 202-3
CODEN: BCSJA8; ISSN: 0009-2673
DT Journal
LA English
GI For diagram(s), see printed CA Issue.
AB The chloromethyl ketone deriv. (I) of N.alpha.-tosyl-L-arginine was
prepd.
via a cryst. NG-nitro-intermediate, which was converted into I with HF
without appreciable impairment of the chloromethyl ketone moiety.

L7 ANSWER 13 OF 13 CAPLUS COPYRIGHT 2003 ACS
TI Esters of N.alpha.-arylsulfonyl amino acids
AN 1962:25288 CAPLUS
DN 56:25288
OREF 56:4853f-g
TI Esters of N.alpha.-arylsulfonyl amino acids
AU Serebryanyi, I. S. B.; Yurganova, L. G.; Neplyuev, V. M.
SO Ukrain. Khim. Zhur. (1961), 27, 365-9
DT Journal
LA Russian
AB L-RNHC(:NH)(CH2)3CHNH2CO2H and substituted PhSO2Cl form the following
substituted RNHC(:NH)(CH2)3CHNH(O2SPh)CO2H (I) from which the Me esters
(II) and HCl salts of II are prepd. (R, substituents in Ph, m.ps. of I
and
II, and [.alpha.]20D of I and II, resp., given); H, p-MeO, 60-70.degree.,
140.degree., -11.1.degree., -12.2.degree.; H, 2,4-(O2N)2, 157-9.degree.,
decompd. 192-3.degree., -33.9.degree., -27.0.degree.; O2N, 4-Me,
166-7.degree., 195.degree., 36.0.degree., -12.0.degree.; H, 3-O2N, -,
decompd. 115-20.degree., -, -2.8.degree.; H, 2-O2N, -, decompd.
90-102.degree., -, -28.1.degree.. L-Histidine and p-MeC6H4SO2Cl form the
analogs of I, decompd. 200.degree., [.alpha.]19D -35.3.degree., and
II.HCl, decompd. 215.degree., [.alpha.]19D -28.5.degree..

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SINCE FILE	TOTAL
ENTRY	SESSION
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FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

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ENTRY	SESSION
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FULL ESTIMATED COST	47.34	347.05
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-8.46	-8.46

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L3 0 SEARCH L1 SSS FULL
L4 STRUCTURE UPLOADED
L5 2 SEARCH L4 SSS SAM
L6 13 SEARCH L4 SSS FULL

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L8 1 TRRYPSIN?
L9 67042 TRYPSIN?
L10 0 L7 AND L8

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NAME	CREATED	NOTES/TITLE
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BROADEST/A	TEMP	429 ANSWERS IN FILE CAPLUS
CITERS/A	TEMP	44 ANSWERS IN FILE SCISEARCH
ESTERODOR/L	05 SEP 2002	42 L-NUMBERS
INDIUMCL3/A	30 MAY 2001	1 ANSWER IN FILE REGISTRY
LTWENTAUGFOR/A	04 AUG 2001	72 ANSWERS IN FILE CAPLUS
NEOTAMECRYST/A	24 APR 2001	59 ANSWERS IN FILE CAPLUS
NSAIDSSRCH/L	TEMP	18 L-NUMBERS
NVLARMFULGEN/A	19 APR 2001	196 ANSWERS IN FILE REGISTRY
PCTSRCH2/L	TEMP	34 L-NUMBERS
PNTBLEROOT/A	TEMP	18 ANSWERS IN FILE CAPLUS
POHBENZALDEH/A	10 JUL 2001	5519 ANSWERS IN FILE CAPLUS
PRIMECMPDS/A	TEMP	62 ANSWERS IN FILE CAPLUS
PRODUCTS/A	TEMP	116 ANSWERS IN FILE CAPLUS
PROSTACMPD15/A	01 AUG 2001	34 ANSWERS IN FILE CAPLUS
RESTRSRCH/L	TEMP	17 L-NUMBERS
STILLEAPP/L	07 JAN 2002	17 L-NUMBERS
TRYPSINH/A	TEMP	94 ANSWERS IN FILE CAPLUS
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L17 (48)SEA FILE=REGISTRY SSS FUL L15
L18 (94)SEA FILE=CAPLUS ABB=ON PLU=ON L17
L19 (63775)SEA FILE=CAPLUS ABB=ON PLU=ON TRYPSIN
L20 (2)SEA FILE=CAPLUS ABB=ON PLU=ON L18 AND L19
L21 (1)SEA FILE=CAPLUS ABB=ON PLU=ON 85563-18-4P
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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-8.46

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FILE LAST UPDATED: 27 Apr 2003 (20030427/ED)

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L28 STR
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L30 94 SEA FILE=CAPLUS ABB=ON PLU=ON L29

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L31 .2 L9 AND L30

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CA SUBSCRIBER PRICE	0.00	-8.46

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.42	347.53
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-8.46

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=> logoff hold
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FULL ESTIMATED COST          0.42      347.53
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CA SUBSCRIBER PRICE          0.00      -8.46
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STN INTERNATIONAL SESSION SUSPENDED AT 10:50:34 ON 28 APR 2003

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LOGINID:sssptal623paz

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 11:34:00 ON 28 APR 2003
FILE 'CAPLUS' ENTERED AT 11:34:00 ON 28 APR 2003
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```
COST IN U.S. DOLLARS          SINCE FILE      TOTAL
                                ENTRY      SESSION
FULL ESTIMATED COST          0.42      347.53

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)  SINCE FILE      TOTAL
                                                ENTRY      SESSION
CA SUBSCRIBER PRICE          0.00      -8.46
```

=> d his

(FILE 'HOME' ENTERED AT 09:58:10 ON 28 APR 2003)

FILE 'REGISTRY' ENTERED AT 09:58:43 ON 28 APR 2003

```
L1          STRUCTURE UPLOADED
L2          0 SEARCH L1 SSS SAM
L3          0 SEARCH L1 SSS FULL
L4          STRUCTURE UPLOADED
L5          2 SEARCH L4 SSS SAM
L6          13 SEARCH L4 SSS FULL
```

FILE 'CAPLUS' ENTERED AT 10:04:39 ON 28 APR 2003

```
L7          13 L6
L8          1 TRRYPSIN?
L9          67042 TRYPSIN?
L10         0 L7 AND L8
```

FILE 'STNGUIDE' ENTERED AT 10:47:00 ON 28 APR 2003
ACT RESTRSRCH/L

```
-----
L11         STR
L12 (       50)SEA FILE=REGISTRY SSS SAM L11
```

```

L13          STR
L14 (        50)SEA FILE=REGISTRY SSS SAM L13
L15          STR
L16 (        2)SEA FILE=REGISTRY SSS SAM L15
L17 (        48)SEA FILE=REGISTRY SSS FUL L15
L18 (        94)SEA FILE=CAPLUS ABB=ON  PLU=ON  L17
L19 (    63775)SEA FILE=CAPLUS ABB=ON  PLU=ON  TRYPSIN
L20 (        2)SEA FILE=CAPLUS ABB=ON  PLU=ON  L18 AND L19
L21 (        1)SEA FILE=CAPLUS ABB=ON  PLU=ON  85563-18-4P
L22 (        1)SEA FILE=REGISTRY ABB=ON  PLU=ON  85563-18-4/RN
L23 (        1)SEA FILE=CAPLUS ABB=ON  PLU=ON  L22
L24 (        1)SEA FILE=REGISTRY ABB=ON  PLU=ON  85563-22-0/RN
L25 (        1)SEA FILE=CAPLUS ABB=ON  PLU=ON  L24
L26 (        1)SEA FILE=REGISTRY ABB=ON  PLU=ON  5165-16-2/RN
L27 (        20)SEA FILE=CAPLUS ABB=ON  PLU=ON  L26

```

FILE 'CAPLUS' ENTERED AT 10:47:44 ON 28 APR 2003
 ACT TRYPSINH/A

```

L28          STR
L29 (        48)SEA FILE=REGISTRY SSS FUL L28
L30          94 SEA FILE=CAPLUS ABB=ON  PLU=ON  L29
L31          2 L9 AND L30

```

=> save temp all restrsrch/l

'RESTRSRCH/L' IN USE

A single name cannot be used for two saved items at the same time.
 Enter "Y" if you wish to replace the current saved name with a new
 definition. Enter "N" if the current saved definition must be
 preserved. You may then reenter the SAVE command with a different
 saved name. Enter "DISPLAY SAVED" at an arrow prompt (=>) to see a
 list of your currently defined saved names.

REPLACE OLD DEFINITION? Y/(N):y

L# LIST L1-L31 HAS BEEN SAVED AS 'RESTRSRCH/L'

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.83	347.94
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-8.46

SESSION WILL BE HELD FOR 60 MINUTES
 STN INTERNATIONAL SESSION SUSPENDED AT 11:34:40 ON 28 APR 2003

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:sssptal623paz

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
 SESSION RESUMED IN FILE 'CAPLUS' AT 12:33:39 ON 28 APR 2003
 FILE 'CAPLUS' ENTERED AT 12:33:39 ON 28 APR 2003.
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COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.83	347.94
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-8.46
=> logoff hold		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.83	347.94
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-8.46

SESSION WILL BE HELD FOR 60 MINUTES
 STN INTERNATIONAL SESSION SUSPENDED AT 12:33:47 ON 28 APR 2003

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:sssptal623paz

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2	Apr 08	"Ask CAS" for self-help around the clock
NEWS 3	Jun 03	New e-mail delivery for search results now available
NEWS 4	Aug 08	PHARMAMarketLetter(PHARMAML) - new on STN
NEWS 5	Aug 19	Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
NEWS 6	Aug 26	Sequence searching in REGISTRY enhanced
NEWS 7	Sep 03	JAPIO has been reloaded and enhanced
NEWS 8	Sep 16	Experimental properties added to the REGISTRY file
NEWS 9	Sep 16	CA Section Thesaurus available in CAPLUS and CA
NEWS 10	Oct 01	CASREACT Enriched with Reactions from 1907 to 1985
NEWS 11	Oct 24	BEILSTEIN adds new search fields
NEWS 12	Oct 24	Nutraceuticals International (NUTRACEUT) now available on STN
NEWS 13	Nov 18	DKILIT has been renamed APOLLIT
NEWS 14	Nov 25	More calculated properties added to REGISTRY
NEWS 15	Dec 04	CSA files on STN
NEWS 16	Dec 17	PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS 17	Dec 17	TOXCENTER enhanced with additional content

NEWS 18 Dec 17 Adis Clinical Trials Insight now available on STN
 NEWS 19 Jan 29 Simultaneous left and right truncation added to COMPENDEX,
 ENERGY, INSPEC
 NEWS 20 Feb 13 CANCERLIT is no longer being updated
 NEWS 21 Feb 24 METADEX enhancements
 NEWS 22 Feb 24 PCTGEN now available on STN
 NEWS 23 Feb 24 TEMA now available on STN
 NEWS 24 Feb 26 NTIS now allows simultaneous left and right truncation
 NEWS 25 Feb 26 PCTFULL now contains images
 NEWS 26 Mar 04 SDI PACKAGE for monthly delivery of multifile SDI results
 NEWS 27 Mar 19 APOLLIT offering free connect time in April 2003
 NEWS 28 Mar 20 EVENTLINE will be removed from STN
 NEWS 29 Mar 24 PATDPAFULL now available on STN
 NEWS 30 Mar 24 Additional information for trade-named substances without
 structures available in REGISTRY
 NEWS 31 Apr 11 Display formats in DGENE enhanced
 NEWS 32 Apr 14 MEDLINE Reload
 NEWS 33 Apr 17 Polymer searching in REGISTRY enhanced
 NEWS 34 Apr 21 Indexing from 1947 to 1956 being added to records in
 CA/CAPLUS
 NEWS 35 Apr 21 New current-awareness alert (SDI) frequency in
 WPIDS/WPINDEX/WPIX
 NEWS 36 Apr 28 RDISCLOSURE now available on STN

 NEWS EXPRESS April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT
 MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
 AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003
 NEWS HOURS STN Operating Hours Plus Help Desk Availability
 NEWS INTER General Internet Information
 NEWS LOGIN Welcome Banner and News Items
 NEWS PHONE Direct Dial and Telecommunication Network Access to STN
 NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
 specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 13:40:02 ON 28 APR 2003

=> logoff

ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:y

COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.21

STN INTERNATIONAL LOGOFF AT 13:40:12 ON 28 APR 2003